

GOMOS Daily Report 07-OCT-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	10OCT2010 04:45:49
Data source version	GOMOS/5.01
Start time of products	07OCT2010 00:00:24
Stop time of products	07OCT2010 23:38:16
Store outputs in DB	Yes
Nb of level 1b prods	87
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

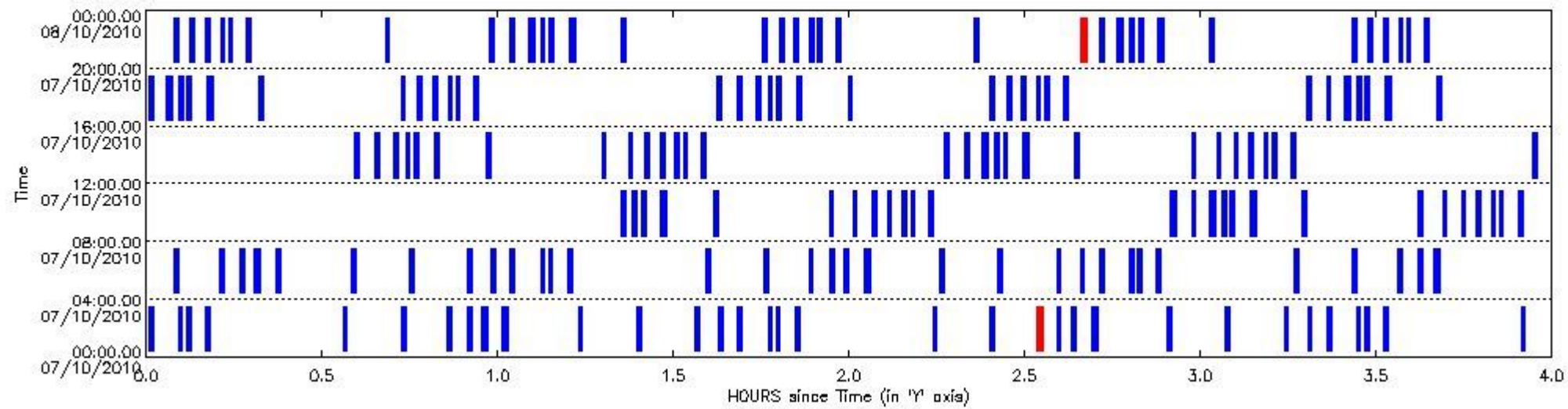
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
07-OCT-2010 02:32:04	15RhoPup	132	44975
07-OCT-2010 22:39:27	15RhoPup	132	44987

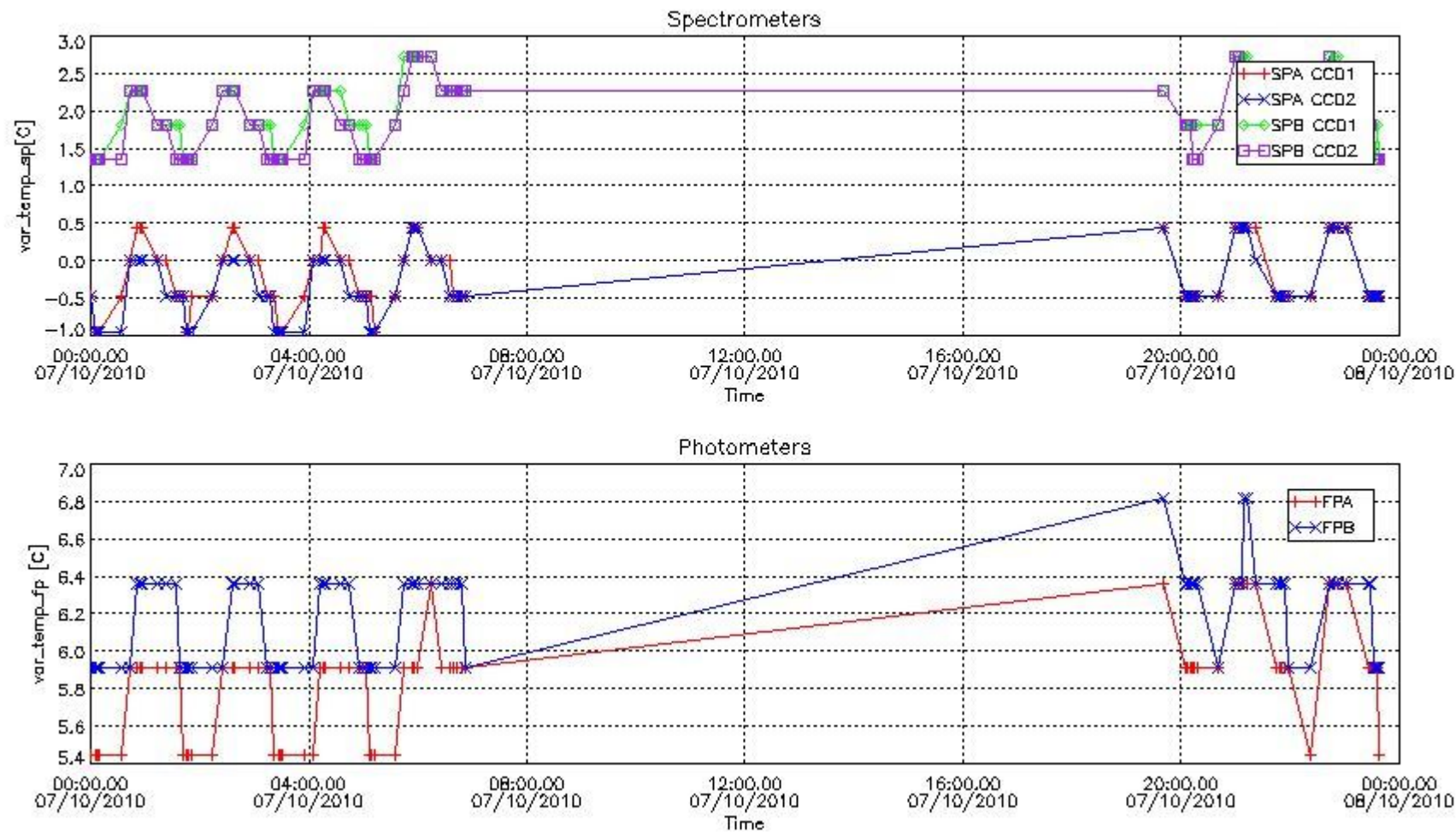
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101007_000024_000000492093_00331_44974_9420.N1	07-OCT-2010 00:00:24	Bright	48.500	53	43Bet And	2.0480	3300.0	97	44974	No
2	GOM_TRA_1PNPDE20101007_000531_000000402093_00331_44974_9421.N1	07-OCT-2010 00:05:31	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	44974	No
3	GOM_TRA_1PNPDE20101007_000656_000000402093_00331_44974_9422.N1	07-OCT-2010 00:06:56	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	44974	No
4	GOM_TRA_1PNPDE20101007_001006_000000502093_00331_44974_9423.N1	07-OCT-2010 00:10:06	Bright	49.500	160	23Gam Per	2.9300	4700.0	99	44974	No
5	GOM_TRA_1PNPDE20101007_003338_000000382093_00331_44974_9424.N1	07-OCT-2010 00:33:38	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	44974	No
6	GOM_TRA_1PNPDE20101007_004331_000000512093_00331_44974_9425.N1	07-OCT-2010 00:43:31	Twilight	50.500	48	30Alp Hya	1.9770	4100.0	101	44974	No
7	GOM_TRA_1PNPDE20101007_005114_000000512093_00331_44974_9441.N1	07-OCT-2010 00:51:14	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	44974	No
8	GOM_TRA_1PNPDE20101007_005449_000000442093_00331_44974_9442.N1	07-OCT-2010 00:54:49	Dark	43.500	70	Zet Pup	2.2460	39000.	87	44974	No
9	GOM_TRA_1PNPDE20101007_005714_000000592093_00331_44974_9443.N1	07-OCT-2010 00:57:14	Dark	59.000	23	21Eps CMa	1.5020	26000.	118	44974	No

10	GOM_TRA_1PNPDE20101007_011341_000000482093_00332_44975_9444.N1	07-OCT-2010 01:13:41	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44975	No
11	GOM_TRA_1PNPDE20101007_012338_000000482093_00332_44975_9445.N1	07-OCT-2010 01:23:38	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44975	No
12	GOM_TRA_1PNPDE20101007_013341_000000402093_00332_44975_9446.N1	07-OCT-2010 01:33:41	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44975	No
13	GOM_TRA_1PNPDE20101007_013745_000000392093_00332_44975_9447.N1	07-OCT-2010 01:37:45	Bright	38.500	58	21Alp And	2.0730	11000.	77	44975	No
14	GOM_TRA_1PNPDE20101007_014059_000000472093_00332_44975_9448.N1	07-OCT-2010 01:40:59	Bright	46.500	53	43Bet And	2.0480	3300.0	93	44975	No
15	GOM_TRA_1PNPDE20101007_014607_000000382093_00332_44975_9449.N1	07-OCT-2010 01:46:07	Bright	37.500	68	18Alp Cas	2.2250	4500.0	75	44975	No
16	GOM_TRA_1PNPDE20101007_014732_000000392093_00332_44975_9450.N1	07-OCT-2010 01:47:32	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44975	No
17	GOM_TRA_1PNPDE20101007_015041_000000482093_00332_44975_9451.N1	07-OCT-2010 01:50:41	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	44975	No
18	GOM_TRA_1PNPDE20101007_021414_000000372093_00332_44975_9452.N1	07-OCT-2010 02:14:14	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	44975	No
19	GOM_TRA_1PNPDE20101007_022408_000000492093_00332_44975_9451.N1	07-OCT-2010 02:24:08	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	44975	No
20	GOM_TRA_1PNPDE20101007_023526_000000432093_00332_44975_9452.N1	07-OCT-2010 02:35:26	Dark	42.500	70	Zet Pup	2.2460	39000.	85	44975	No
21	GOM_TRA_1PNPDE20101007_023751_000000582093_00332_44975_9453.N1	07-OCT-2010 02:37:51	Dark	57.500	23	21Eps CMa	1.5020	26000.	115	44975	No
22	GOM_TRA_1PNPDE20101007_025418_000000472093_00333_44976_9454.N1	07-OCT-2010 02:54:18	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	44976	No
23	GOM_TRA_1PNPDE20101007_030414_000000502093_00333_44976_9455.N1	07-OCT-2010 03:04:14	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44976	No
24	GOM_TRA_1PNPDE20101007_031417_000000382093_00333_44976_9456.N1	07-OCT-2010 03:14:17	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	44976	No
25	GOM_TRA_1PNPDE20101007_031821_000000382093_00333_44976_9457.N1	07-OCT-2010 03:18:21	Bright	38.000	58	21Alp And	2.0730	11000.	76	44976	No
26	GOM_TRA_1PNPDE20101007_032134_000000432093_00333_44976_9458.N1	07-OCT-2010 03:21:34	Bright	43.000	53	43Bet And	2.0480	3300.0	86	44976	No
27	GOM_TRA_1PNPDE20101007_032642_000000392093_00333_44976_9459.N1	07-OCT-2010 03:26:42	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	44976	No
28	GOM_TRA_1PNPDE20101007_032807_000000362093_00333_44976_9460.N1	07-OCT-2010 03:28:07	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	44976	No
29	GOM_TRA_1PNPDE20101007_033116_000000512093_00333_44976_9461.N1	07-OCT-2010 03:31:16	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	44976	No
30	GOM_TRA_1PNPDE20101007_035450_000000382093_00333_44976_9483.N1	07-OCT-2010 03:54:50	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	44976	No
31	GOM_TRA_1PNPDE20101007_040444_000000472093_00333_44976_9484.N1	07-OCT-2010 04:04:44	Twilight	46.500	48	30Alp Hya	1.9770	4100.0	93	44976	No
32	GOM_TRA_1PNPDE20101007_041228_000000482093_00333_44976_9485.N1	07-OCT-2010 04:12:28	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44976	No
33	GOM_TRA_1PNPDE20101007_041602_000000432093_00333_44976_9486.N1	07-OCT-2010 04:16:02	Dark	43.000	70	Zet Pup	2.2460	39000.	86	44976	No
34	GOM_TRA_1PNPDE20101007_041829_000000572093_00333_44976_9487.N1	07-OCT-2010 04:18:29	Dark	56.500	23	21Eps CMa	1.5020	26000.	113	44976	No
35	GOM_TRA_1PNPDE20101007_043454_000000492093_00334_44977_9488.N1	07-OCT-2010 04:34:54	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44977	No
36	GOM_TRA_1PNPDE20101007_044450_000000502093_00334_44977_9489.N1	07-OCT-2010 04:44:50	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44977	No
37	GOM_TRA_1PNPDE20101007_045453_000000372093_00334_44977_9490.N1	07-OCT-2010 04:54:53	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	44977	No
38	GOM_TRA_1PNPDE20101007_045857_000000382093_00334_44977_9491.N1	07-OCT-2010 04:58:57	Bright	37.500	58	21Alp And	2.0730	11000.	75	44977	No
39	GOM_TRA_1PNPDE20101007_050210_000000462093_00334_44977_9492.N1	07-OCT-2010 05:02:10	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44977	No
40	GOM_TRA_1PNPDE20101007_050718_000000412093_00334_44977_9493.N1	07-OCT-2010 05:07:18	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	44977	No
41	GOM_TRA_1PNPDE20101007_050843_000000392093_00334_44977_9494.N1	07-OCT-2010 05:08:43	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44977	No
42	GOM_TRA_1PNPDE20101007_051151_000000512093_00334_44977_9495.N1	07-OCT-2010 05:11:51	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	44977	No
43	GOM_TRA_1PNPDE20101007_053526_000000562093_00334_44977_9507.N1	07-OCT-2010 05:35:26	Bright	56.000	166	17Eps Leo	2.9800	6000.0	112	44977	No
44	GOM_TRA_1PNPDE20101007_054520_000000522093_00334_44977_9508.N1	07-OCT-2010 05:45:20	Twilight	51.500	48	30Alp Hya	1.9770	4100.0	103	44977	No
45	GOM_TRA_1PNPDE20101007_055305_000000482093_00334_44977_9509.N1	07-OCT-2010 05:53:05	Dark	47.500	132	15Rho Pup	2.8030	6900.0	95	44977	No
46	GOM_TRA_1PNPDE20101007_055639_000000452093_00334_44977_9510.N1	07-OCT-2010 05:56:39	Dark	44.500	70	Zet Pup	2.2460	39000.	89	44977	No
47	GOM_TRA_1PNPDE20101007_055906_000000562093_00334_44977_9511.N1	07-OCT-2010 05:59:06	Dark	56.000	23	21Eps CMa	1.5020	26000.	112	44977	No
48	GOM_TRA_1PNPDE20101007_061531_000000482093_00335_44978_9512.N1	07-OCT-2010 06:15:31	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	44978	No
49	GOM_TRA_1PNPDE20101007_062527_000000472093_00335_44978_9513.N1	07-OCT-2010 06:25:27	Straylight	47.000	52	16Bet Cet	2.0370	4500.0	94	44978	No
50	GOM_TRA_1PNPDE20101007_063529_000000382093_00335_44978_9514.N1	07-OCT-2010 06:35:29	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	44978	No
51	GOM_TRA_1PNPDE20101007_063933_000000402093_00335_44978_9515.N1	07-OCT-2010 06:39:33	Bright	40.000	58	21Alp And	2.0730	11000.	80	44978	No
52	GOM_TRA_1PNPDE20101007_064245_000000452093_00335_44978_9516.N1	07-OCT-2010 06:42:45	Bright	44.500	53	43Bet And	2.0480	3300.0	89	44978	No
53	GOM_TRA_1PNPDE20101007_064754_000000412093_00335_44978_9517.N1	07-OCT-2010 06:47:54	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44978	No
54	GOM_TRA_1PNPDE20101007_064919_000000412093_00335_44978_9518.N1	07-OCT-2010 06:49:19	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44978	No
55	GOM_TRA_1PNPDE20101007_065226_000000512093_00335_44978_9519.N1	07-OCT-2010 06:52:26	Bright	51.000	160	23Gam Per	2.9300	4700.0	102	44978	No
56	GOM_TRA_1PNPDE20101007_194023_000000492093_00343_44986_9609.N1	07-OCT-2010 19:40:23	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	44986	No
57	GOM_TRA_1PNPDE20101007_200437_000000482093_00343_44986_9610.N1	07-OCT-2010 20:04:37	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	44986	No
58	GOM_TRA_1PNPDE20101007_200728_000000452093_00343_44986_9611.N1	07-OCT-2010 20:07:28	Bright	45.000	53	43Bet And	2.0480	3300.0	90	44986	No
59	GOM_TRA_1PNPDE20101007_200959_000000552093_00343_44986_9612.N1	07-OCT-2010 20:09:59	Bright	54.500	173	4Bet Tri	3.0040	8900.0	109	44986	No
60	GOM_TRA_1PNPDE20101007_201239_000000412093_00343_44986_9613.N1	07-OCT-2010 20:12:39	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44986	No
61	GOM_TRA_1PNPDE20101007_201403_000000392093_00343_44986_9614.N1	07-OCT-2010 20:14:03	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	44986	No
62	GOM_TRA_1PNPDE20101007_201706_000000512093_00343_44986_9615.N1	07-OCT-2010 20:17:06	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	44986	No
63	GOM_TRA_1PNPDE20101007_204052_000000372093_00343_44986_9616.N1	07-OCT-2010 20:40:52	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	44986	No
64	GOM_TRA_1PNPDE20101007_205837_000000512093_00343_44986_9635.N1	07-OCT-2010 20:58:37	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	44986	No
65	GOM_TRA_1PNPDE20101007_210209_000000432093_00343_44986_9636.N1	07-OCT-2010 21:02:09	Dark	42.500	70	Zet Pup	2.2460	39000.	85	44986	No
66	GOM_TRA_1PNPDE20101007_210721_000000422093_00344_44987_9637.N1	07-OCT-2010 21:07:21	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44987	No
67	GOM_TRA_1PNPDE20101007_210844_000000442093_00344_44987_9638.N1	07-OCT-2010 21:08:44	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	44987	No
68	GOM_TRA_1PNPDE20101007_211211_000000632093_00344_44987_9639.N1	07-OCT-2010 21:12:11	Dark	62.500	108	Alp Col	2.6520	15200.	125	44987	No

69	GOM_TRA_1PNPDE20101007_212100_000000462093_00344_44987_9640.N1	07-OCT-2010 21:21:00	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	44987	No
70	GOM_TRA_1PNPDE20101007_214512_000000482093_00344_44987_9641.N1	07-OCT-2010 21:45:12	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	44987	No
71	GOM_TRA_1PNPDE20101007_214804_000000442093_00344_44987_9642.N1	07-OCT-2010 21:48:04	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44987	No
72	GOM_TRA_1PNPDE20101007_215034_000000542093_00344_44987_9643.N1	07-OCT-2010 21:50:34	Bright	54.000	173	4Bet Tri	3.0040	8900.0	108	44987	No
73	GOM_TRA_1PNPDE20101007_215314_000000412093_00344_44987_9644.N1	07-OCT-2010 21:53:14	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	44987	No
74	GOM_TRA_1PNPDE20101007_215439_000000402093_00344_44987_9645.N1	07-OCT-2010 21:54:39	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	44987	No
75	GOM_TRA_1PNPDE20101007_215741_000000502093_00344_44987_9646.N1	07-OCT-2010 21:57:41	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	44987	No
76	GOM_TRA_1PNPDE20101007_222128_000000462093_00344_44987_9647.N1	07-OCT-2010 22:21:28	Bright	45.500	166	17Eps Leo	2.9800	6000.0	91	44987	No
77	GOM_TRA_1PNPDE20101007_224246_000000422093_00344_44987_9660.N1	07-OCT-2010 22:42:46	Dark	41.500	70	Zet Pup	2.2460	39000.	83	44987	No
78	GOM_TRA_1PNPDE20101007_224757_000000432093_00345_44988_9661.N1	07-OCT-2010 22:47:57	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44988	No
79	GOM_TRA_1PNPDE20101007_224921_000000582093_00345_44988_9662.N1	07-OCT-2010 22:49:21	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	44988	No
80	GOM_TRA_1PNPDE20101007_225248_000000632093_00345_44988_9663.N1	07-OCT-2010 22:52:48	Dark	62.500	108	Alp Col	2.6520	15200.	125	44988	No
81	GOM_TRA_1PNPDE20101007_230136_000000472093_00345_44988_9664.N1	07-OCT-2010 23:01:36	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	44988	No
82	GOM_TRA_1PNPDE20101007_232546_000000532093_00345_44988_9665.N1	07-OCT-2010 23:25:46	Bright	53.000	105	6Bet Ari	2.6450	8900.0	106	44988	No
83	GOM_TRA_1PNPDE20101007_232839_000000462093_00345_44988_9666.N1	07-OCT-2010 23:28:39	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44988	No
84	GOM_TRA_1PNPDE20101007_233109_000000552093_00345_44988_9667.N1	07-OCT-2010 23:31:09	Bright	55.000	173	4Bet Tri	3.0040	8900.0	110	44988	No
85	GOM_TRA_1PNPDE20101007_233350_000000402093_00345_44988_9668.N1	07-OCT-2010 23:33:50	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	44988	No
86	GOM_TRA_1PNPDE20101007_233514_000000412093_00345_44988_9669.N1	07-OCT-2010 23:35:14	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44988	No
87	GOM_TRA_1PNPDE20101007_233816_000000482093_00345_44988_9670.N1	07-OCT-2010 23:38:16	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	44988	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted

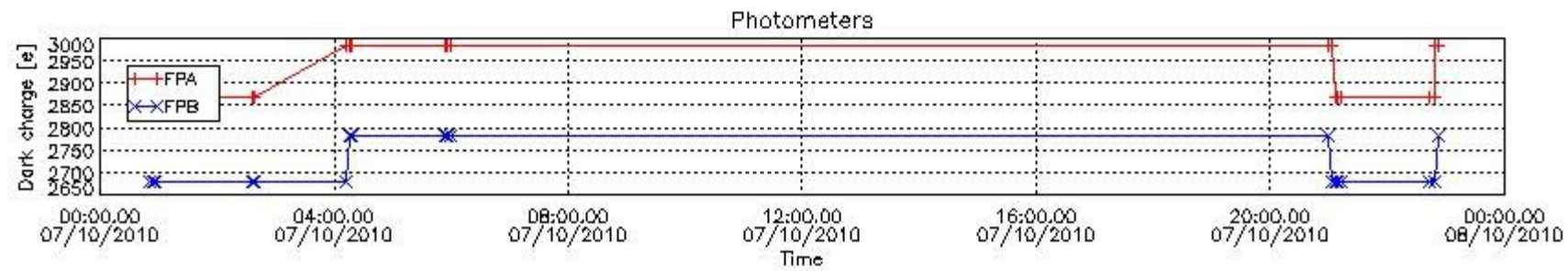
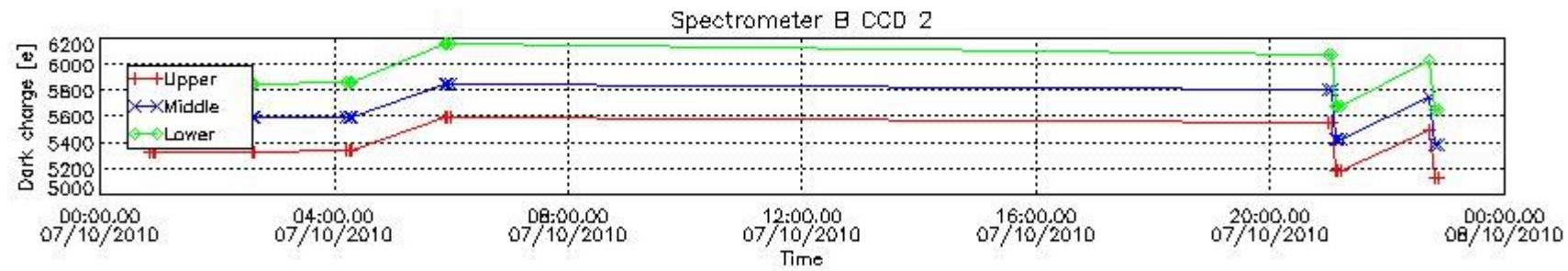
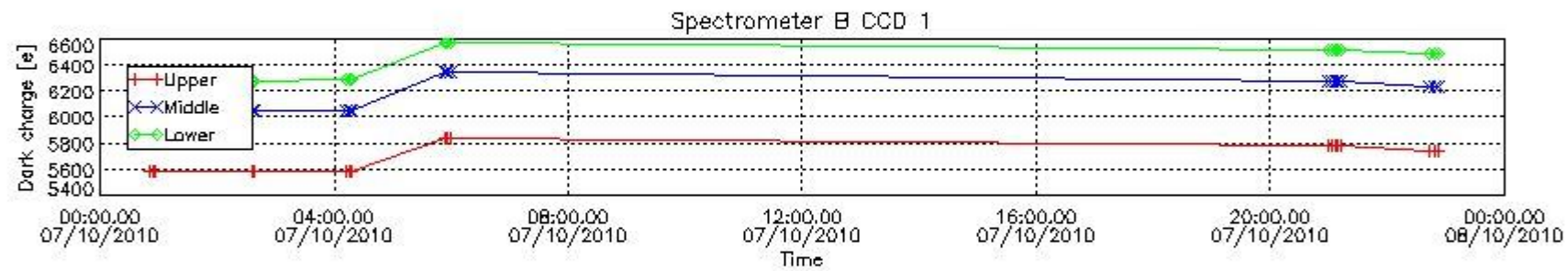
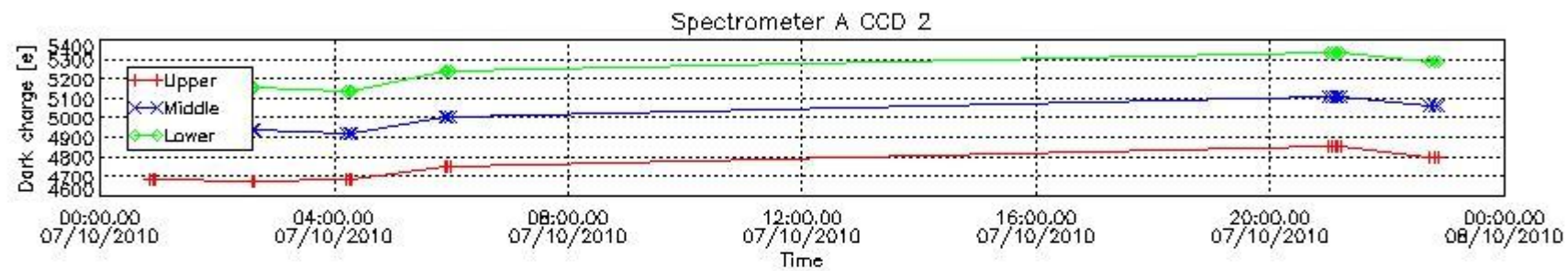
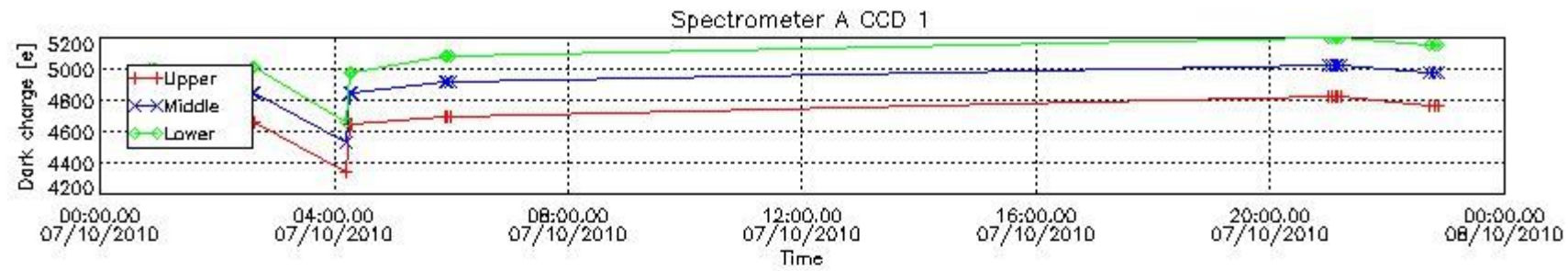
from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20101007_194023_000000492093_00343_44986_9609.N1	DC map used
GOM_TRA_1PNPDE20101007_200437_000000482093_00343_44986_9610.N1	DC map used
GOM_TRA_1PNPDE20101007_200728_000000452093_00343_44986_9611.N1	DC map used
GOM_TRA_1PNPDE20101007_200959_000000552093_00343_44986_9612.N1	DC map used
GOM_TRA_1PNPDE20101007_201239_000000412093_00343_44986_9613.N1	DC map used
GOM_TRA_1PNPDE20101007_201403_000000392093_00343_44986_9614.N1	DC map used
GOM_TRA_1PNPDE20101007_201706_000000512093_00343_44986_9615.N1	DC map used
GOM_TRA_1PNPDE20101007_204052_000000372093_00343_44986_9616.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



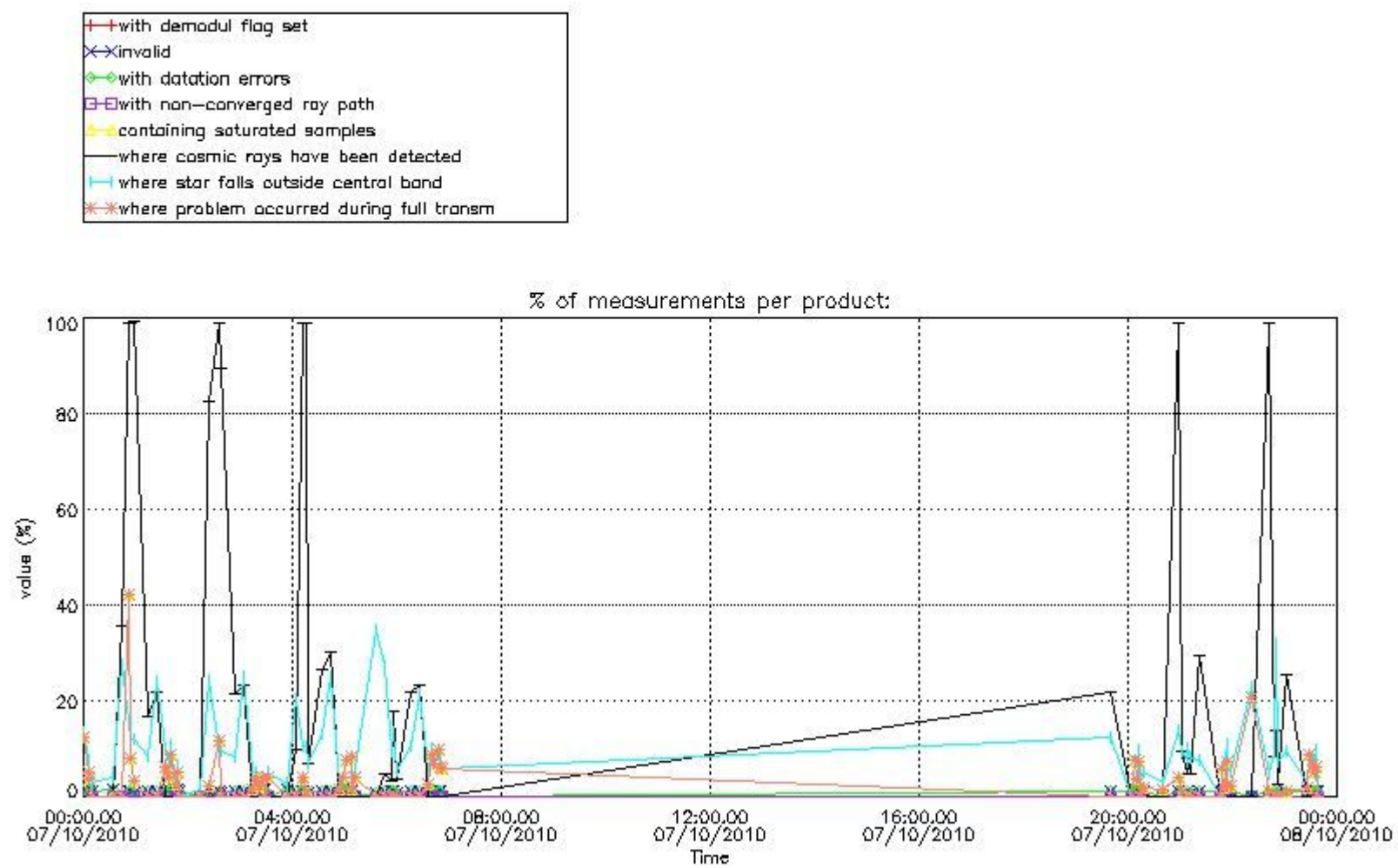
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

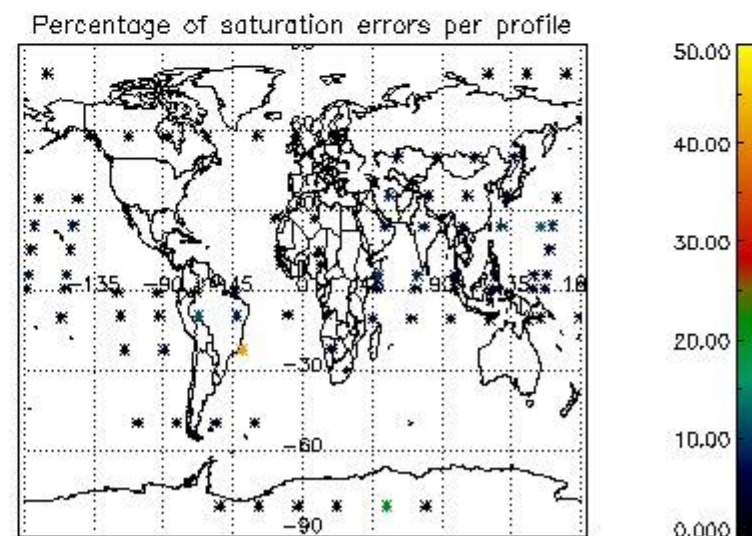
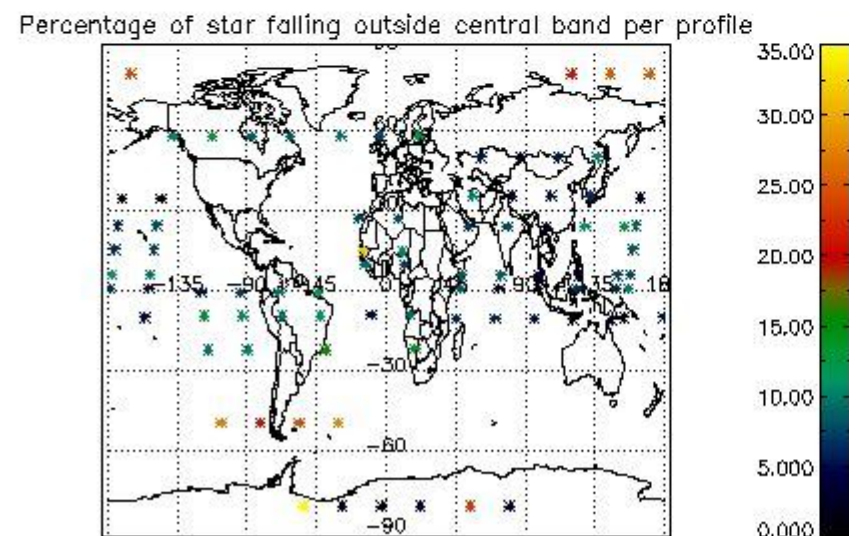
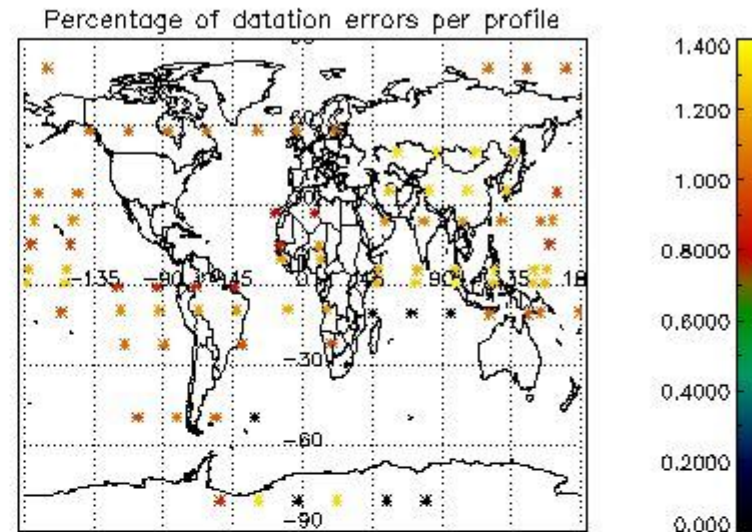
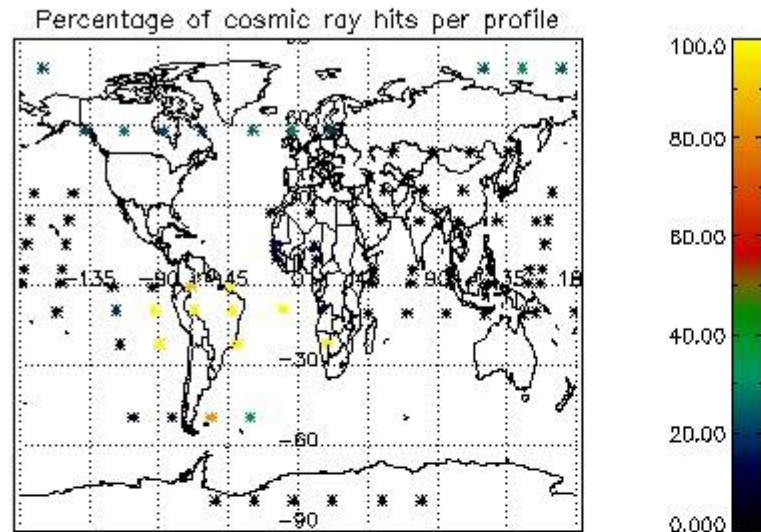
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.6322 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



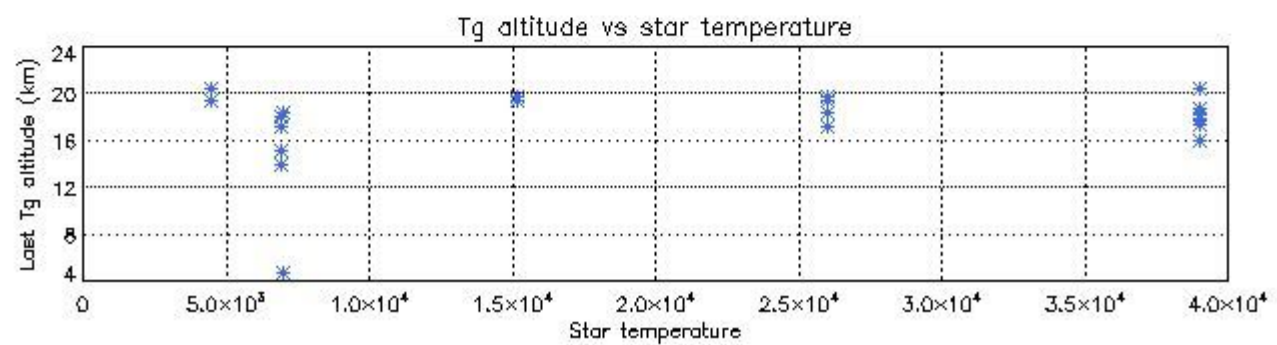
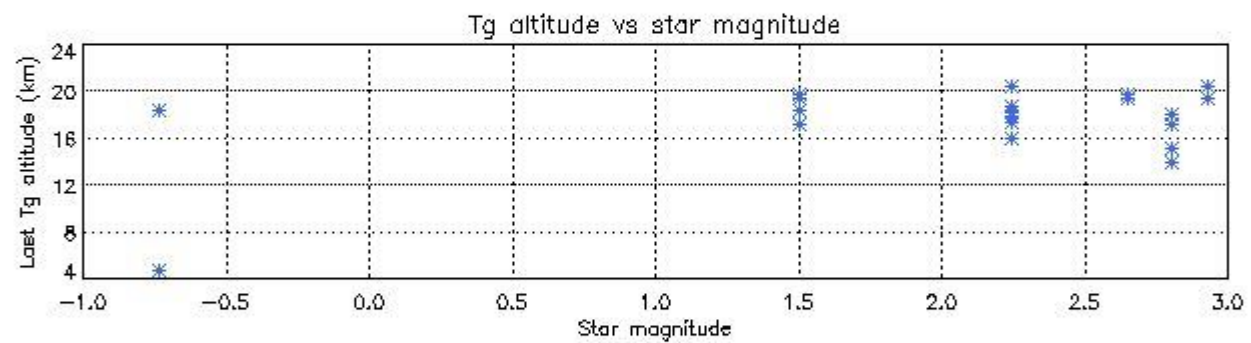
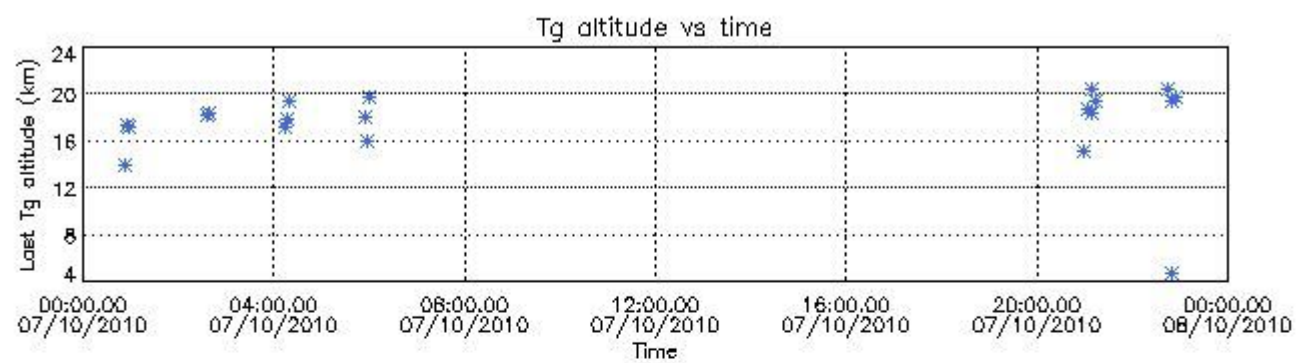
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.479	21.112	9.2747
St. deviation:	3.4733	4.2308	1.9643
Maximum:	20.447	32.441	11.931
Minimum:	4.6321	4.2957	7.5664
Number of data:	20.000	52.000	4.0000

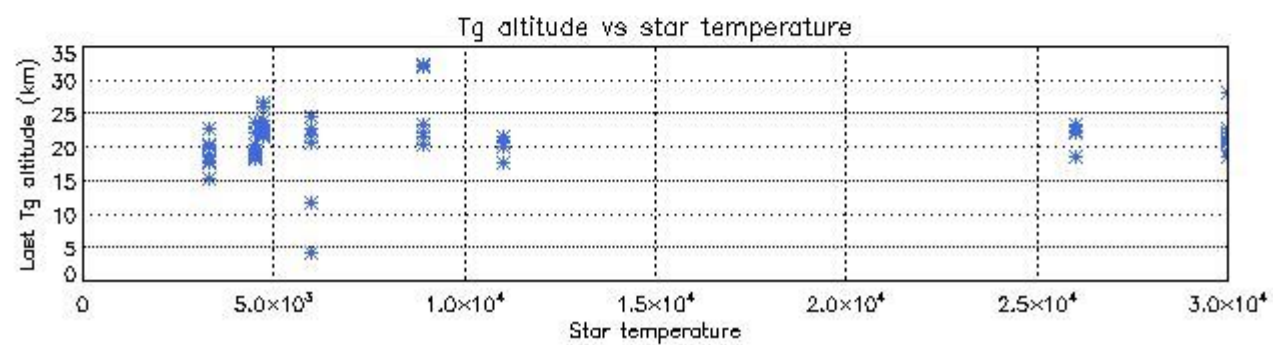
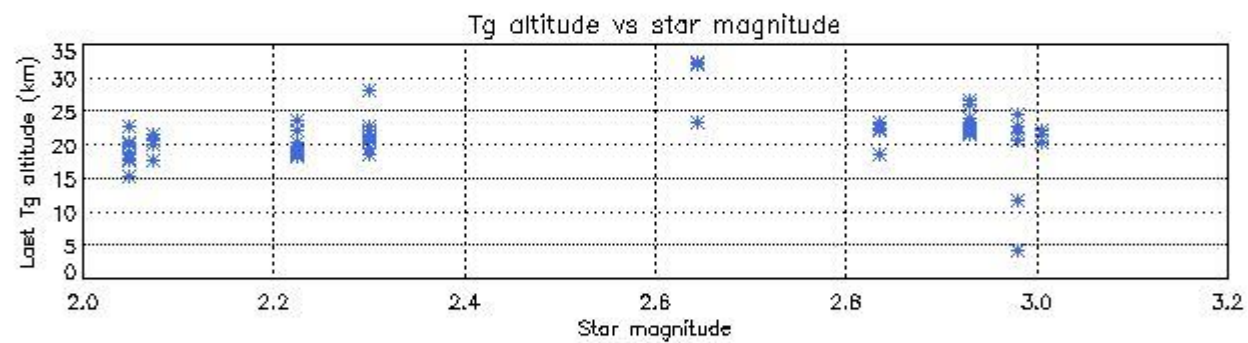
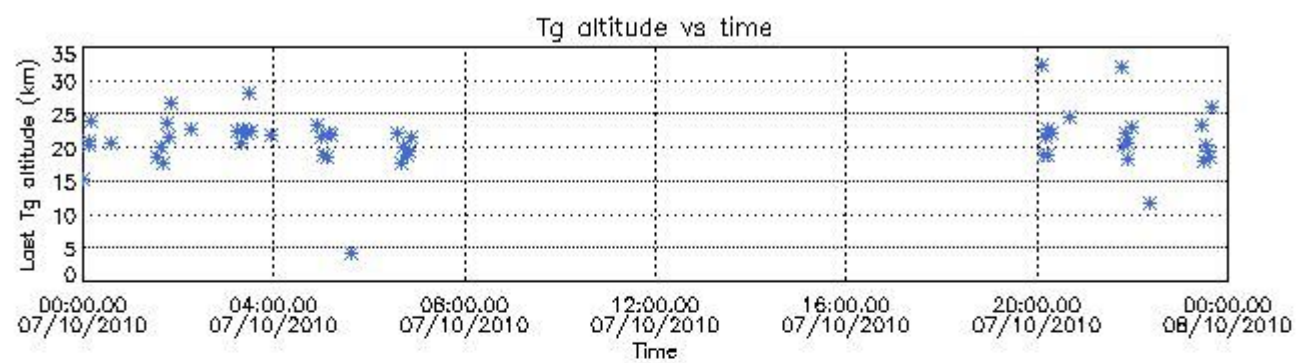
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



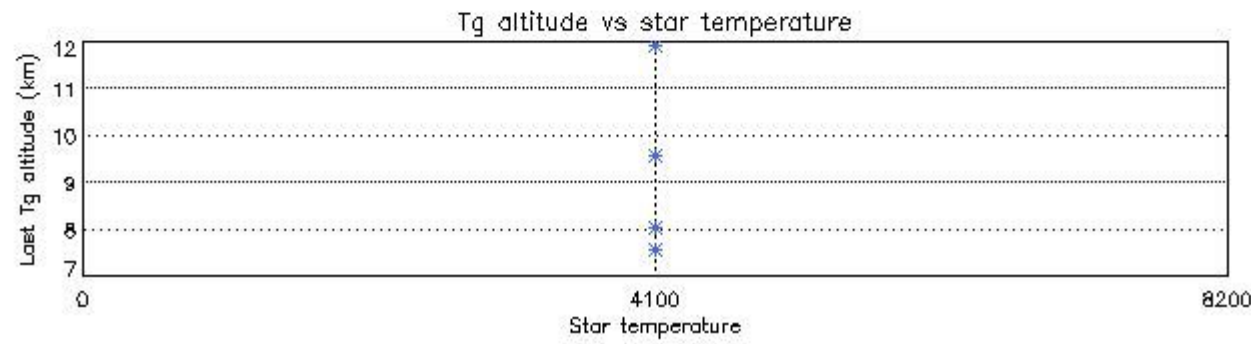
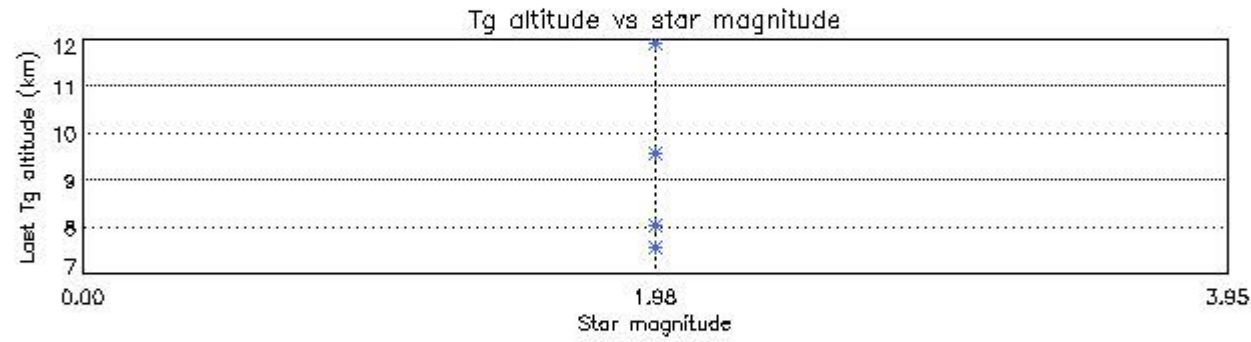
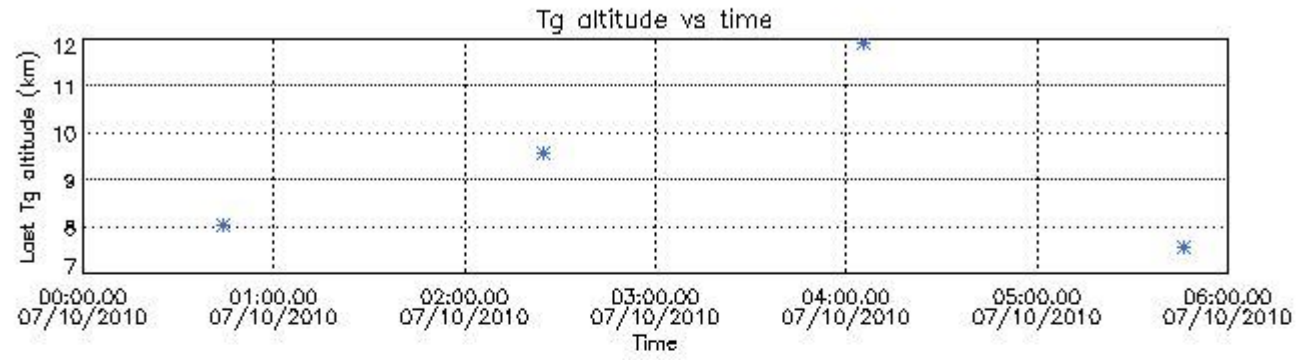
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

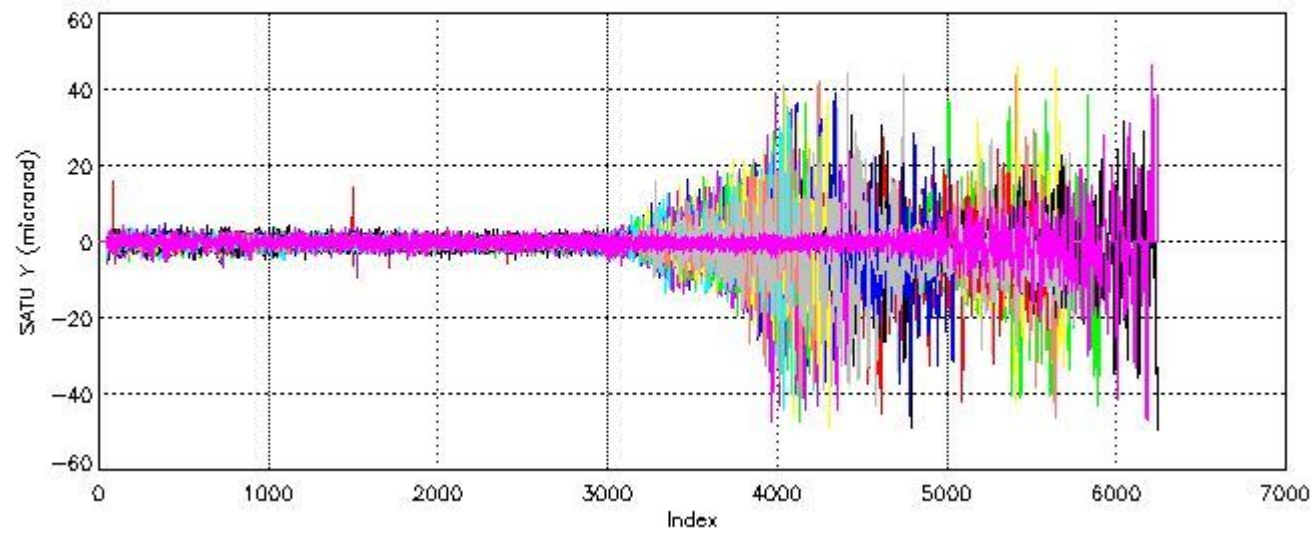
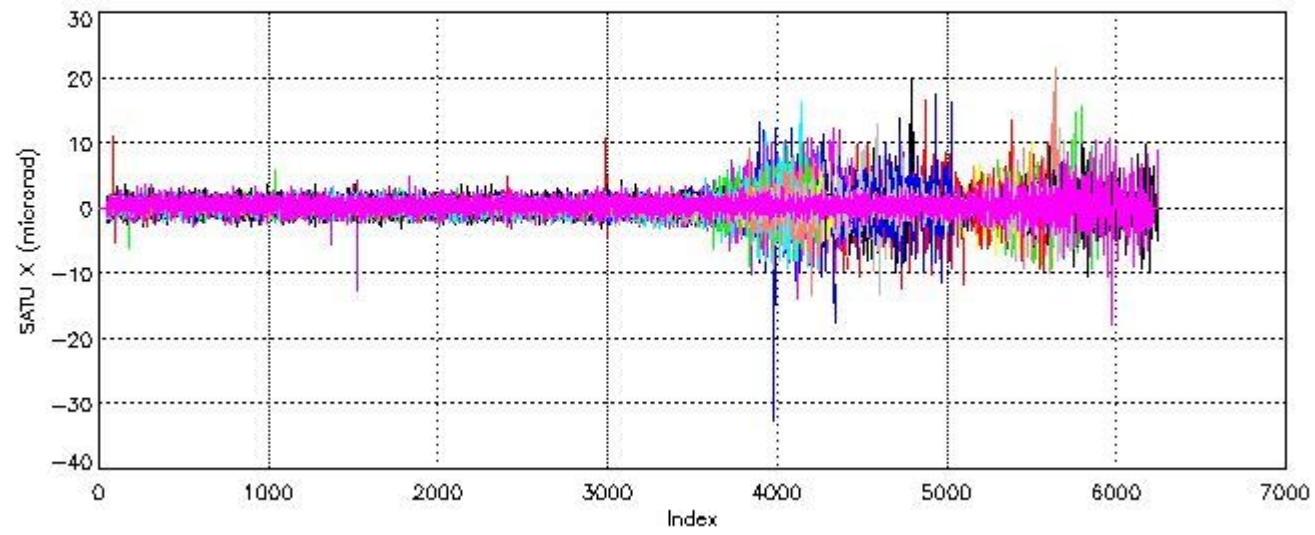


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18537	-0.30361	0.22805	-0.33470
St. deviation:	0.65453	1.1231	0.82100	1.2512
Maximum:	11.000	15.700	5.8000	7.6000
Minimum:	-6.2000	-6.6000	-6.4000	-9.1000

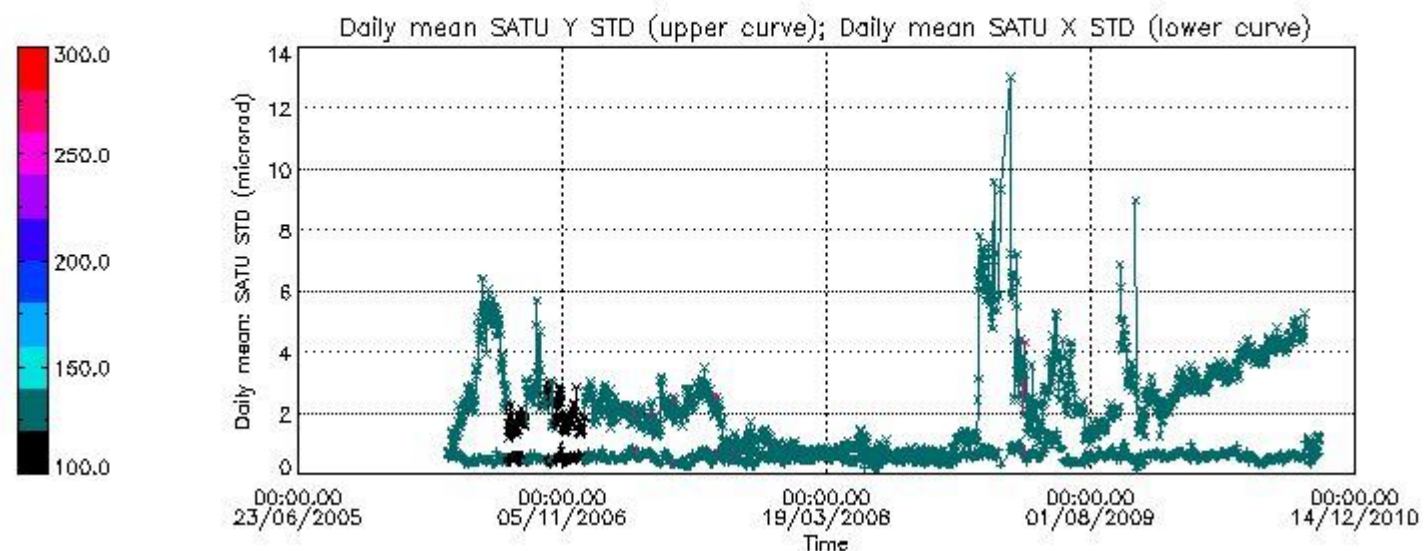
Number of data:	22200.	22200.	55300.	55300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

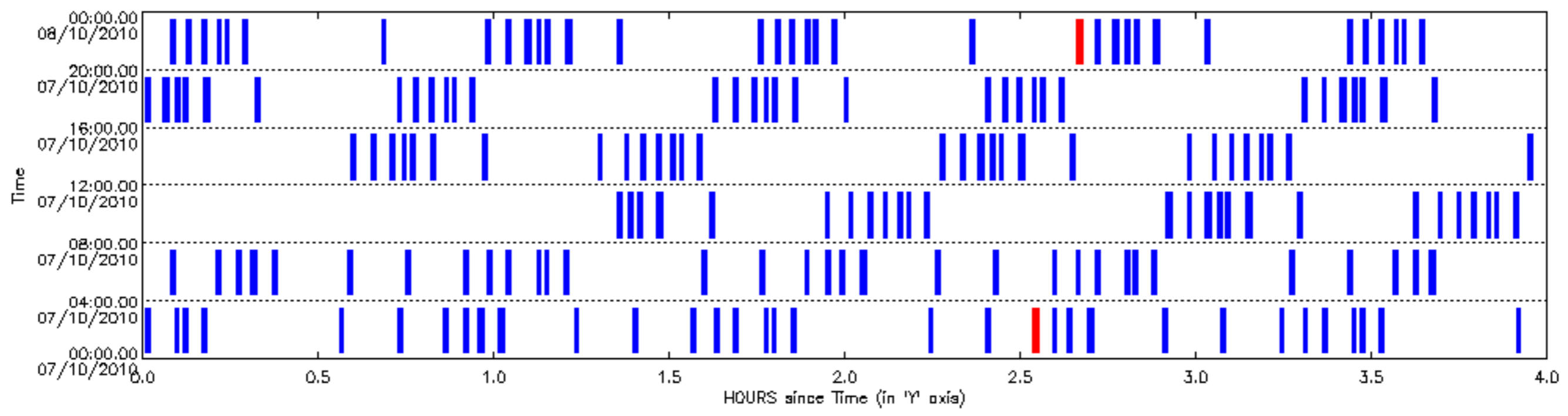
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

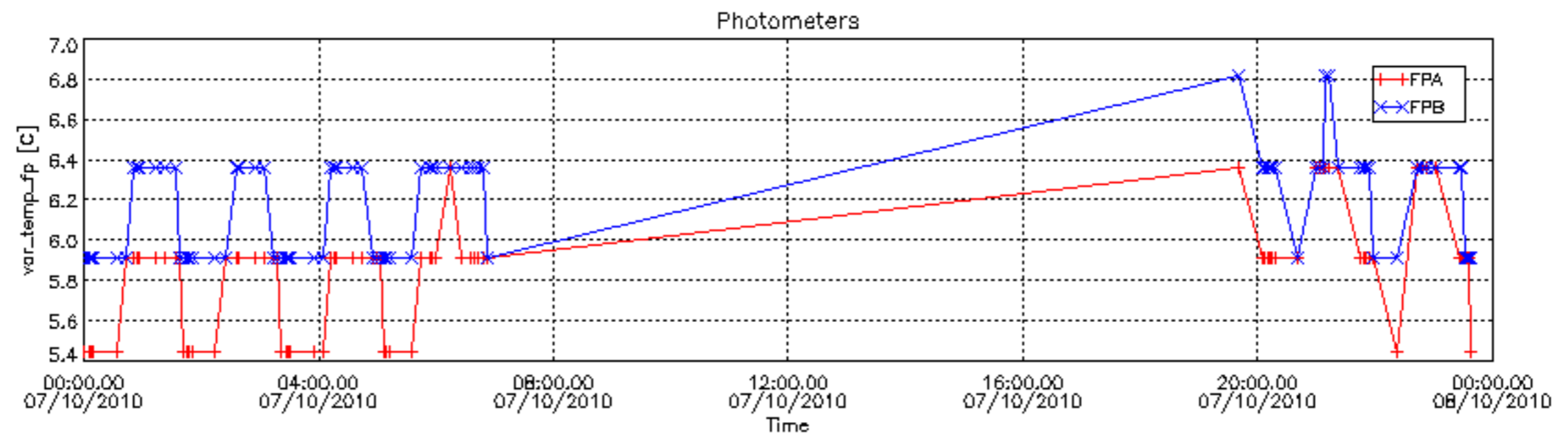
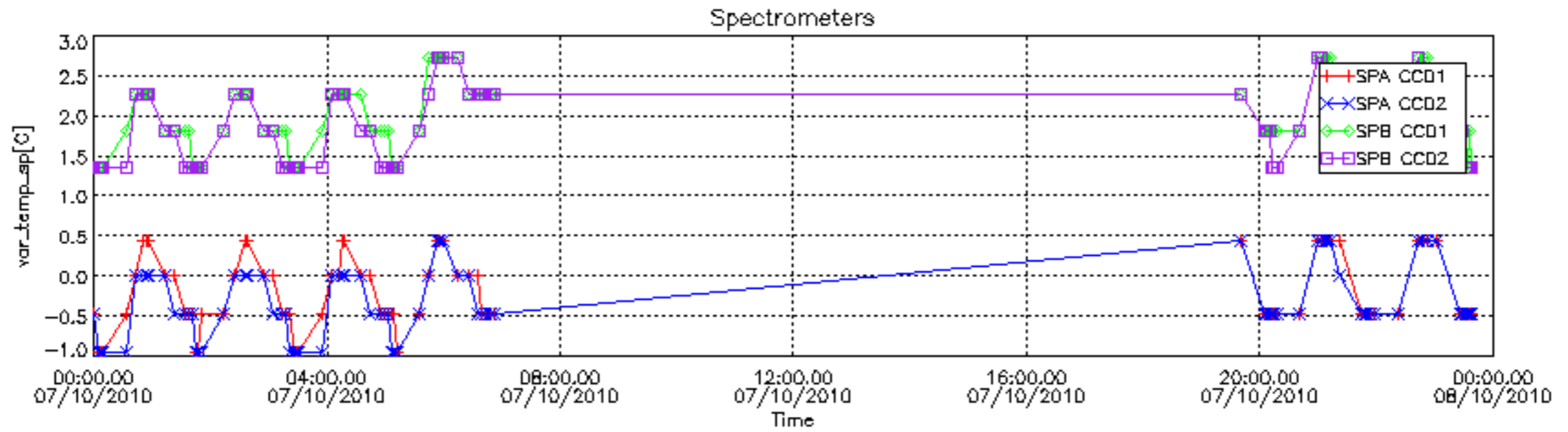


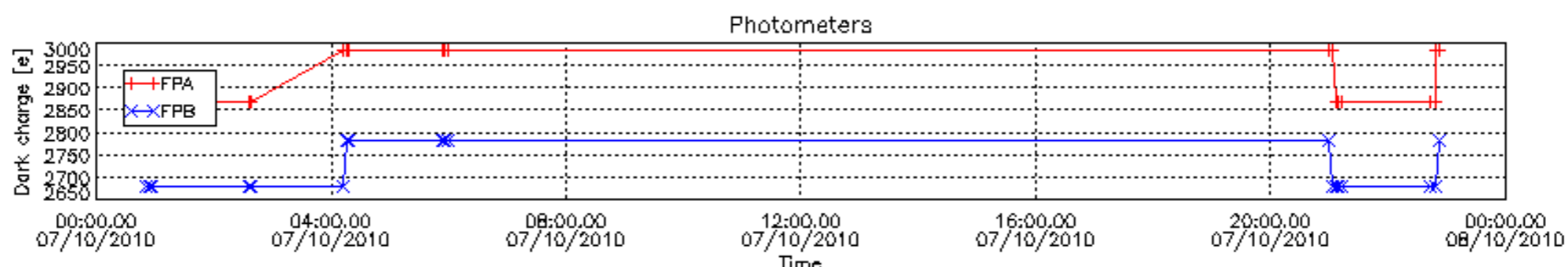
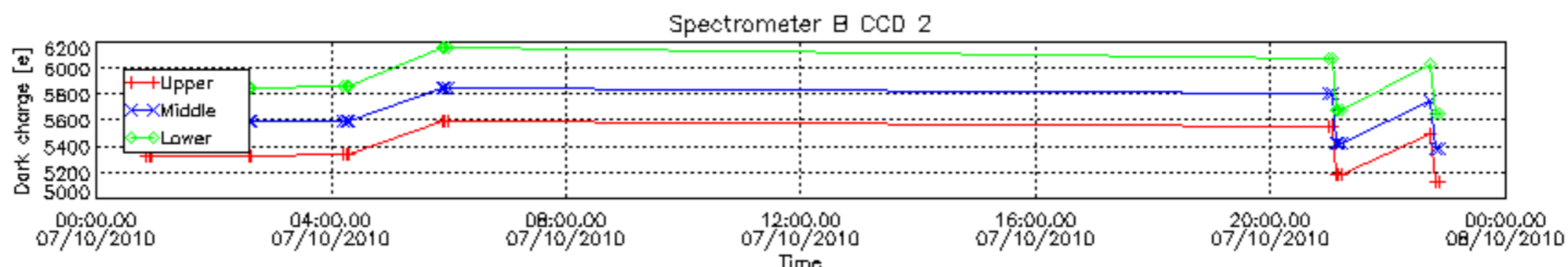
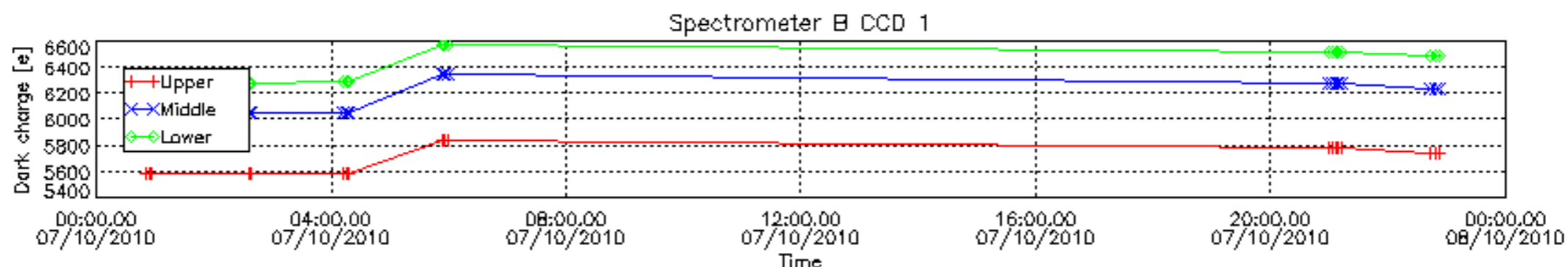
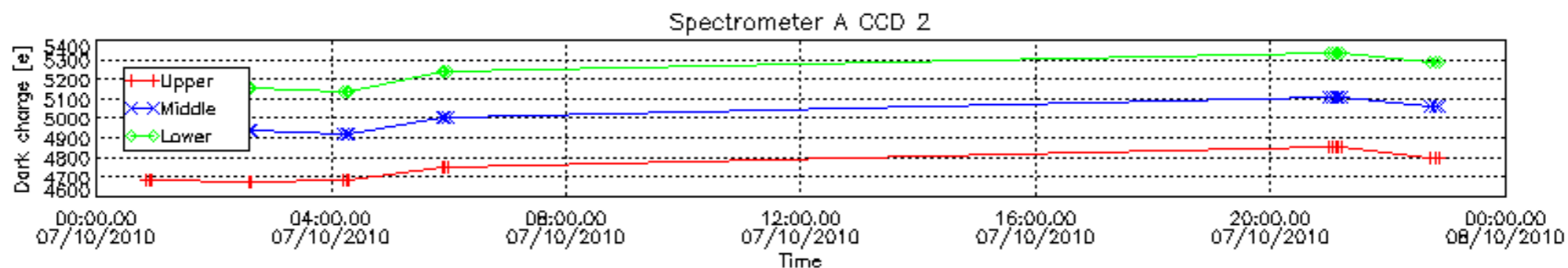
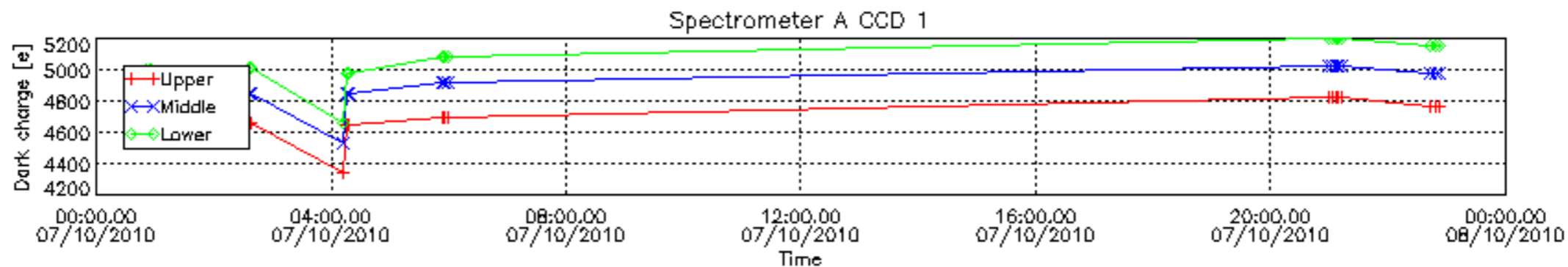
8. Auxiliary Data Files used for the production reported in section 2.4

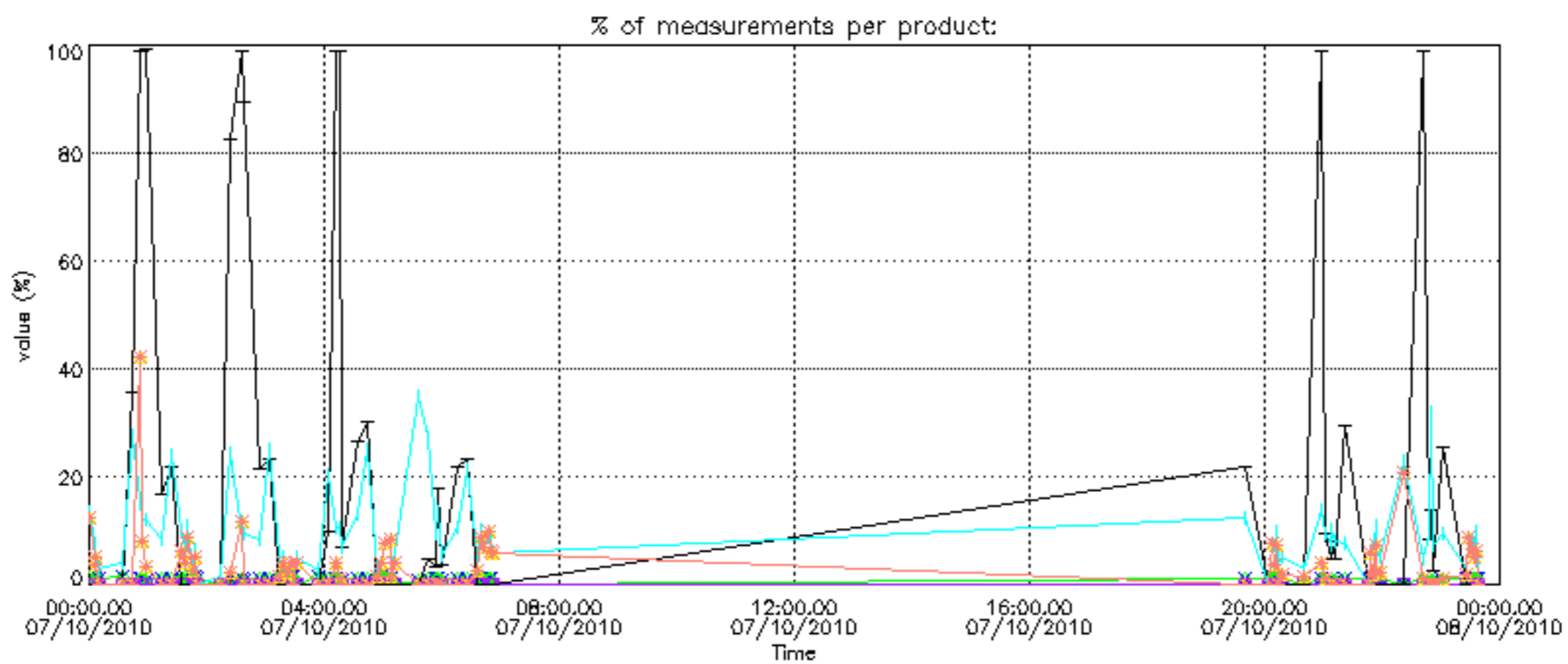
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	07-OCT-2010 00:00:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	07-OCT-2010 00:00:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	07-OCT-2010 00:00:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-OCT-2010 00:00:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	07-OCT-2010 00:00:24
ECMWF_FILE	AUX_ECF_AXNECM20101006_054112_20101006_210000_20101007_090000	1	07-OCT-2010 00:00:24
ECMWF_FILE	AUX_ECF_AXNECM20101006_172115_20101007_030000_20101007_150000	30	07-OCT-2010 03:54:50
ECMWF_FILE	AUX_ECA_AXNECM20101007_052114_20101006_210000_20101007_090000	43	07-OCT-2010 05:35:26
ECMWF_FILE	AUX_ECA_AXNECM20101007_171207_20101007_090000_20101007_210000	56	07-OCT-2010 19:40:23
ECMWF_FILE	AUX_ECF_AXNECM20101007_054112_20101007_150000_20101008_030000	64	07-OCT-2010 20:58:37
ECMWF_FILE	AUX_ECF_AXNECM20101007_054112_20101007_210000_20101008_090000	77	07-OCT-2010 22:42:46
OPTIONAL_ECMWF_FILE	MISSING	1	07-OCT-2010 00:00:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_230257_000057382093_00330_44973_1210.N1	1	07-OCT-2010 00:00:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_004354_000054192093_00331_44974_1211.N1	7	07-OCT-2010 00:51:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_021932_000041442093_00332_44975_1212.N1	19	07-OCT-2010 02:24:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_033355_000057382093_00333_44976_1213.N1	30	07-OCT-2010 03:54:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_051452_000057382093_00334_44977_1214.N1	43	07-OCT-2010 05:35:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_193536_000038262093_00343_44986_1215.N1	56	07-OCT-2010 19:40:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_204440_000060572093_00343_44986_1216.N1	64	07-OCT-2010 20:58:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101007_223056_000057382093_00344_44987_1217.N1	77	07-OCT-2010 22:42:46

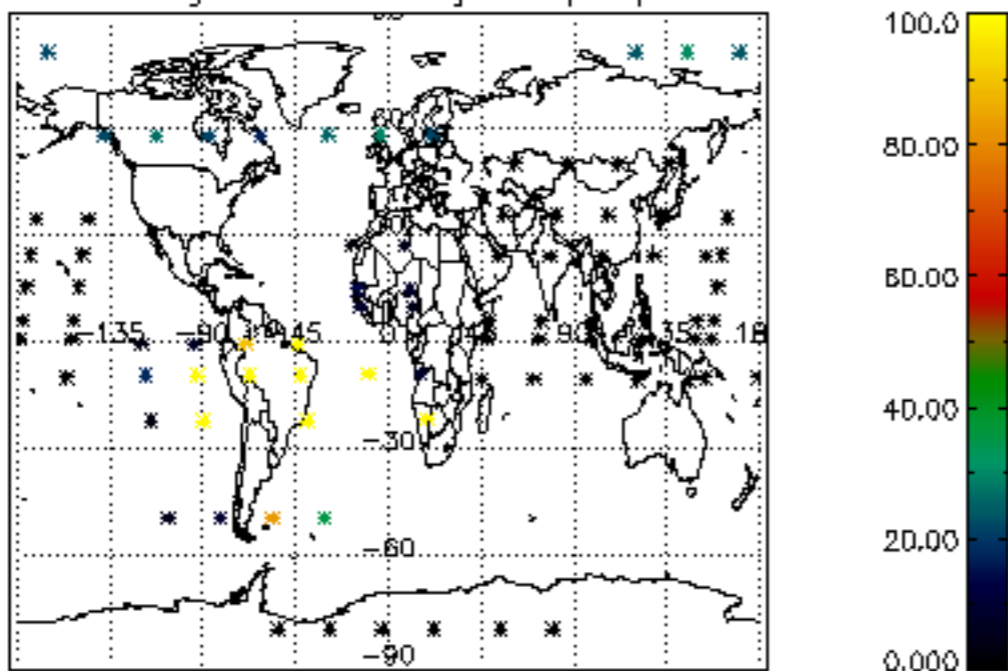




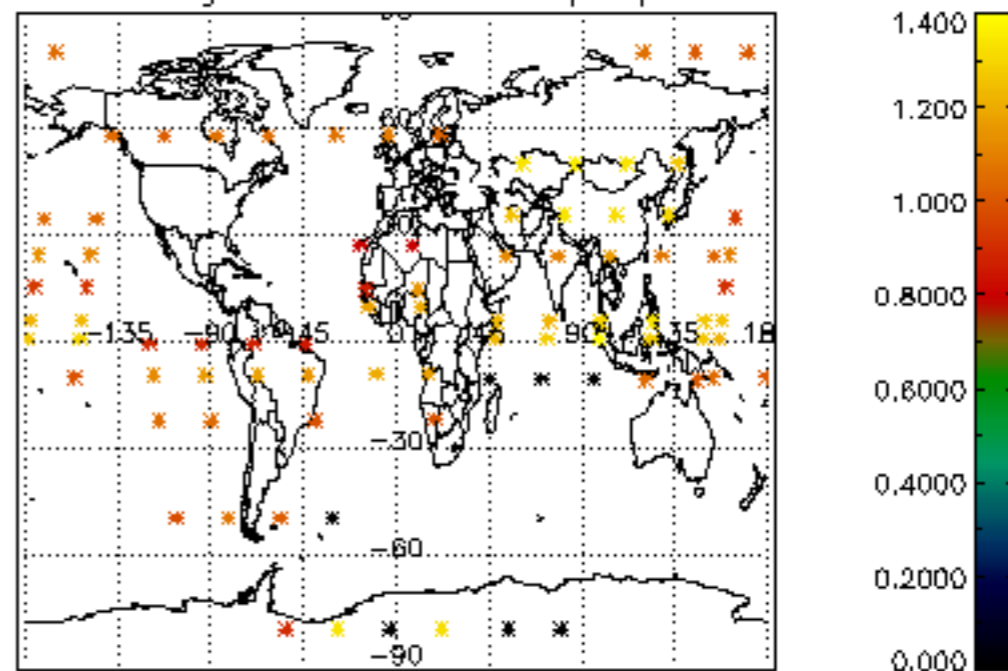




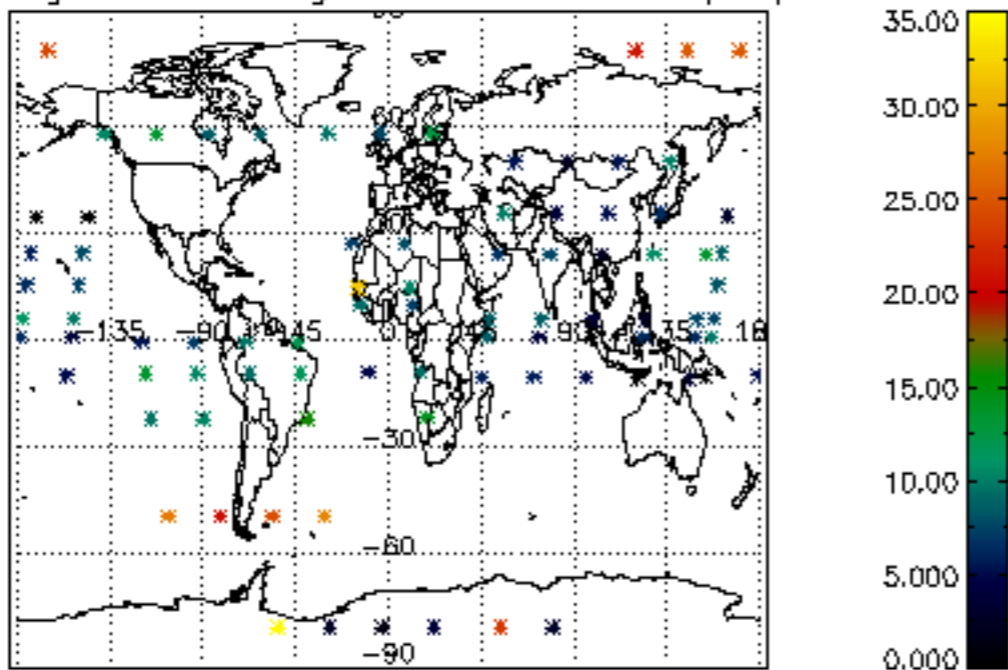
Percentage of cosmic ray hits per profile



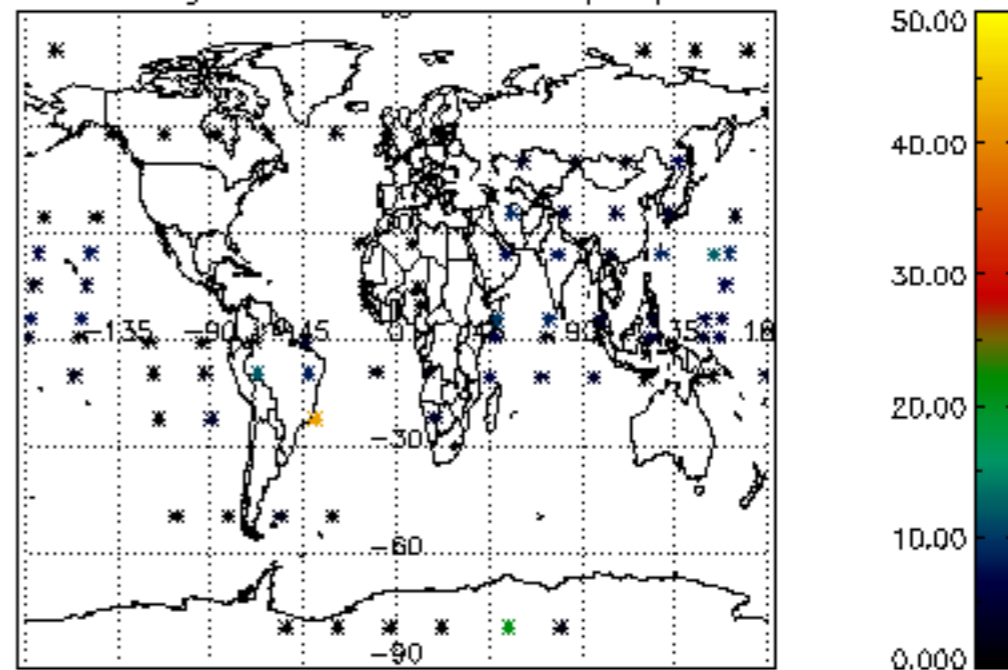
Percentage of datation errors per profile



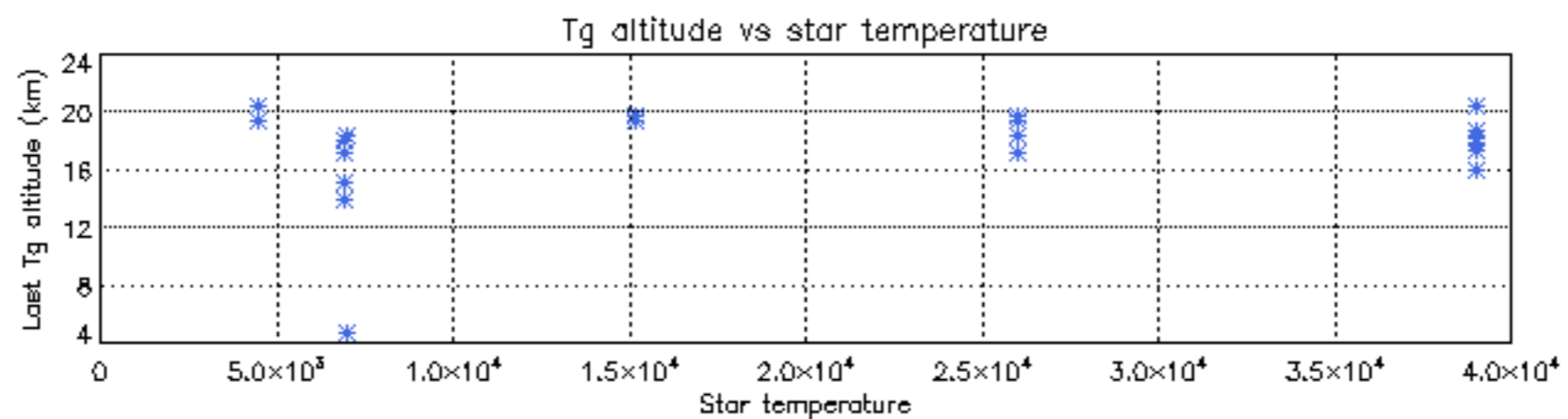
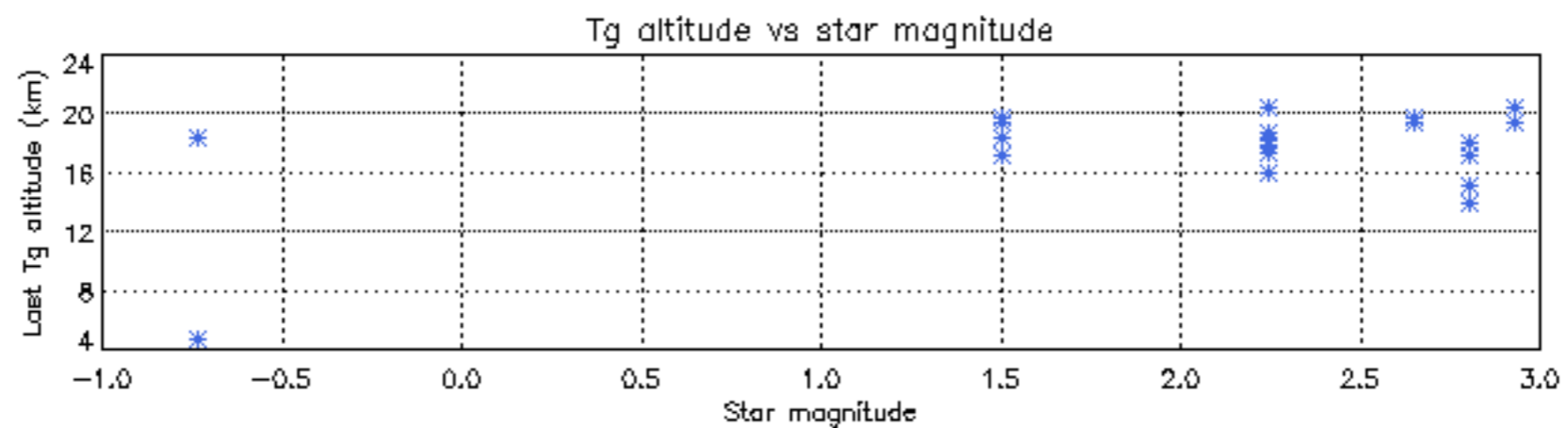
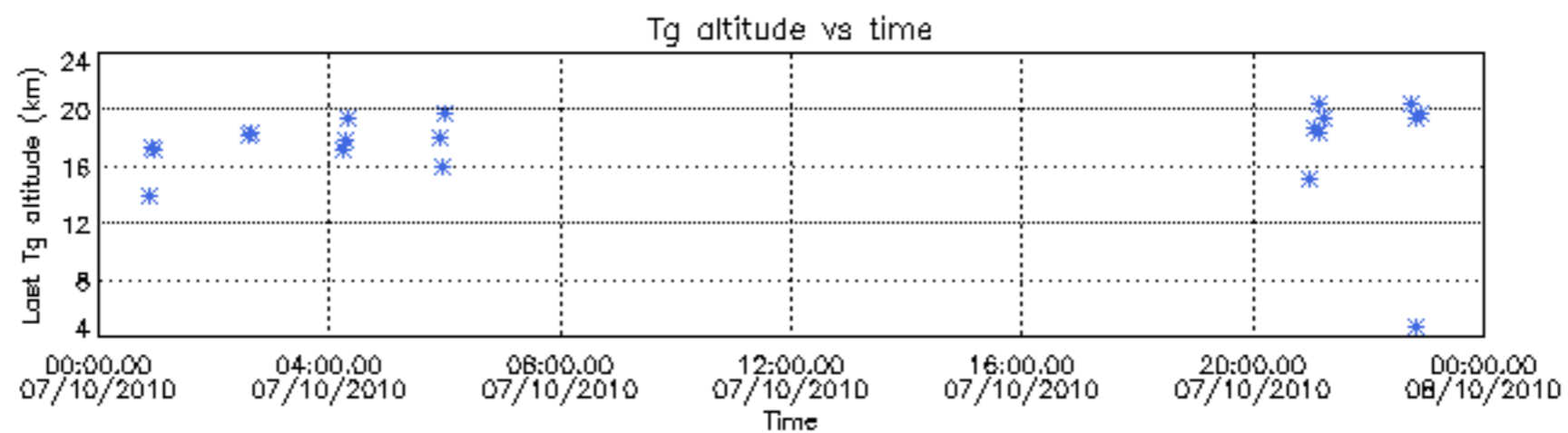
Percentage of star falling outside central band per profile



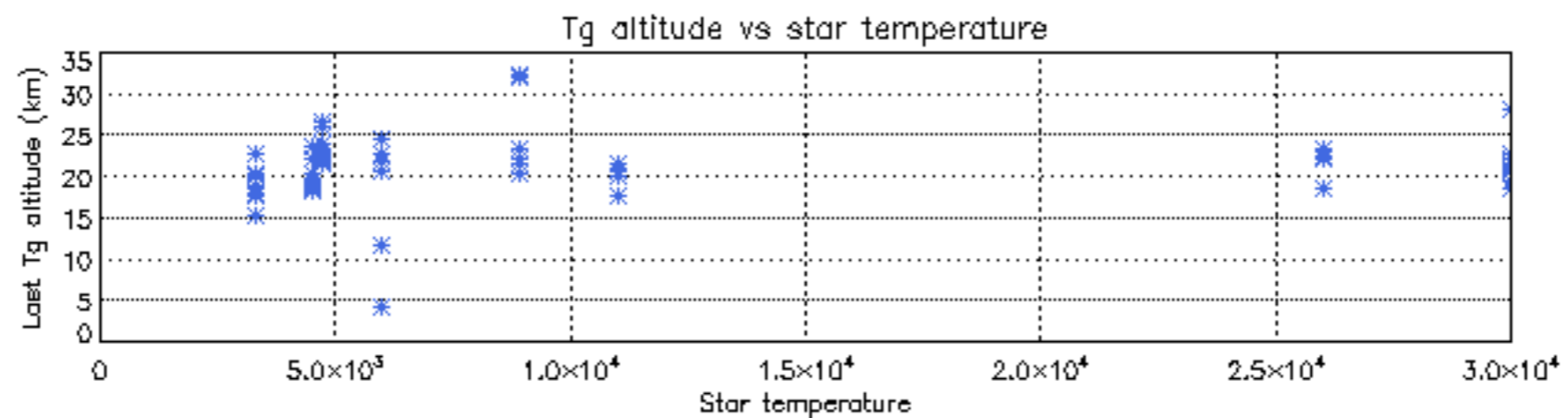
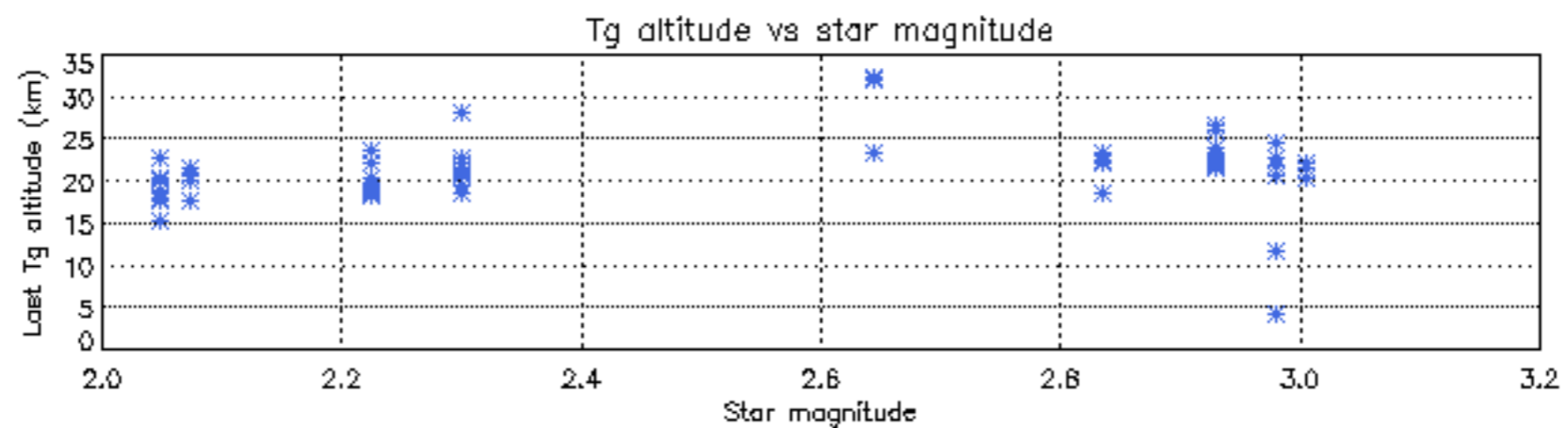
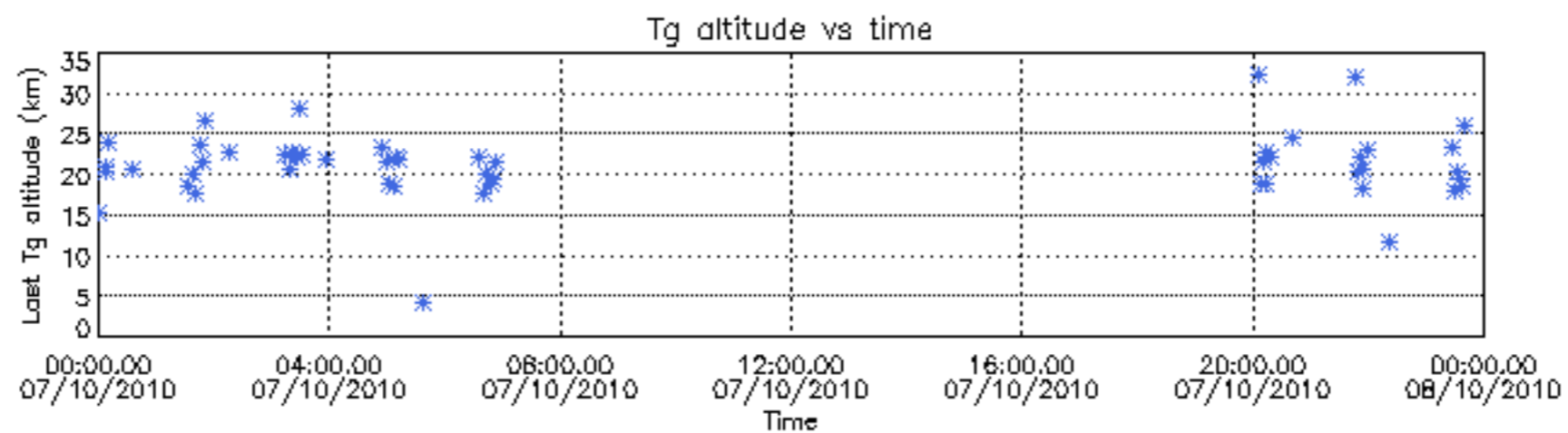
Percentage of saturation errors per profile



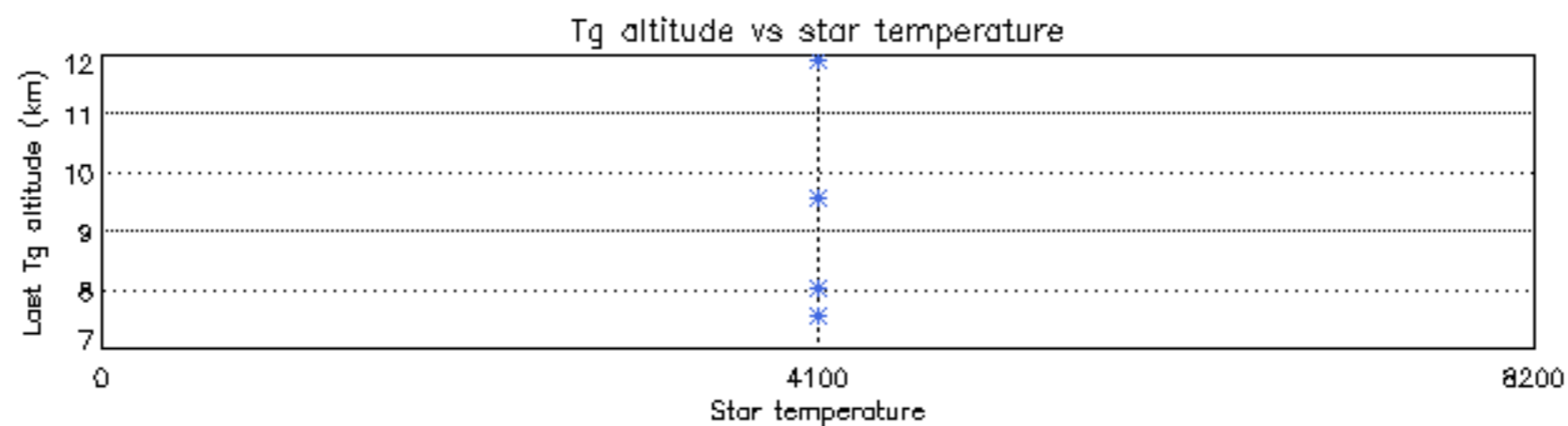
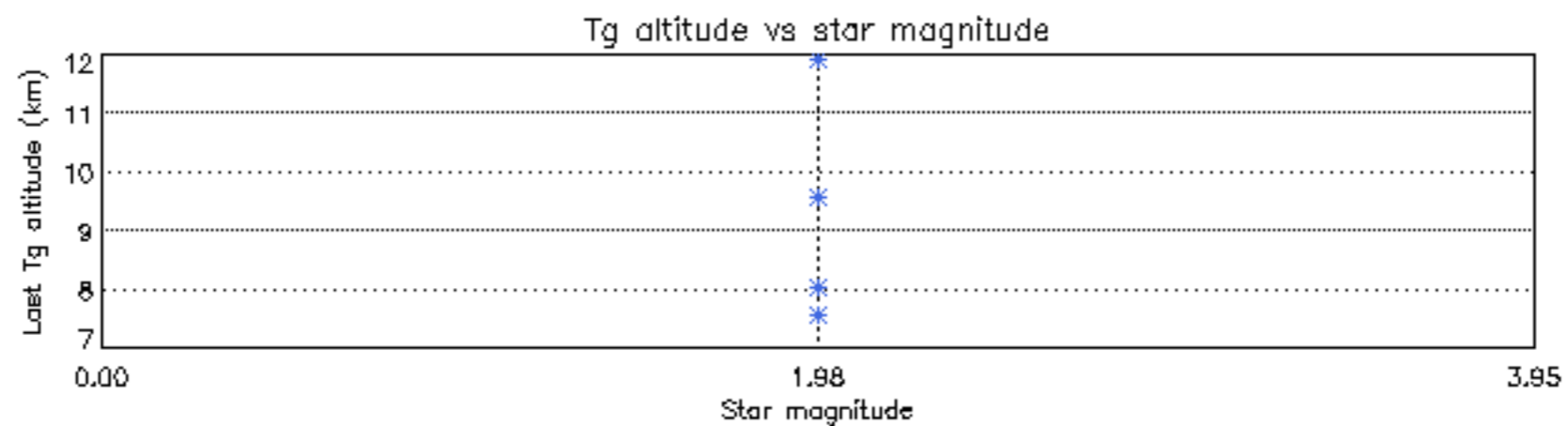
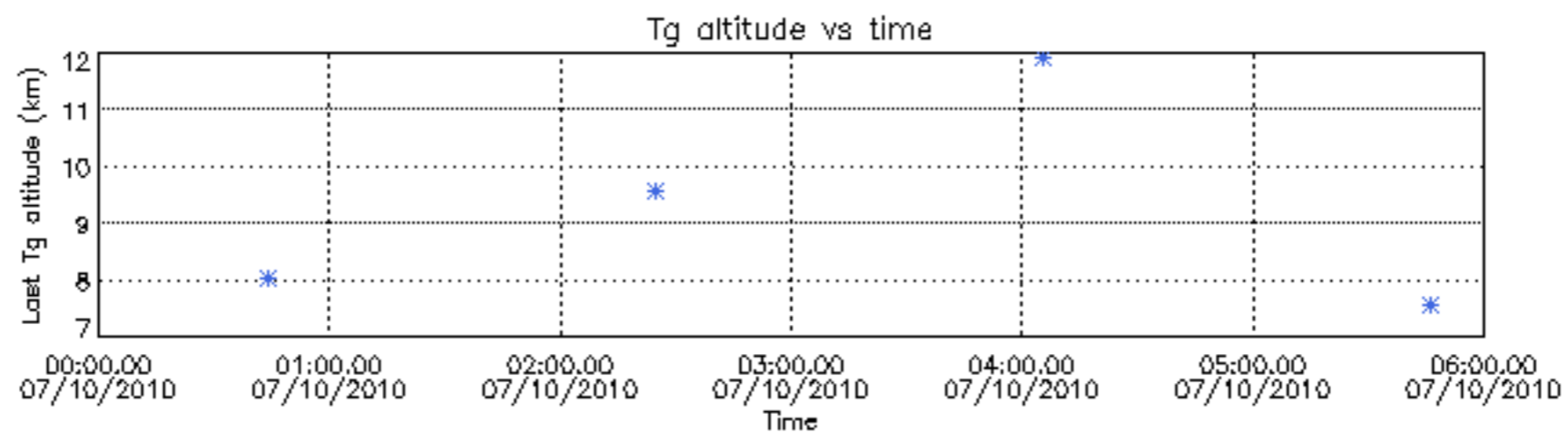
Tangent altitude at which the star is lost

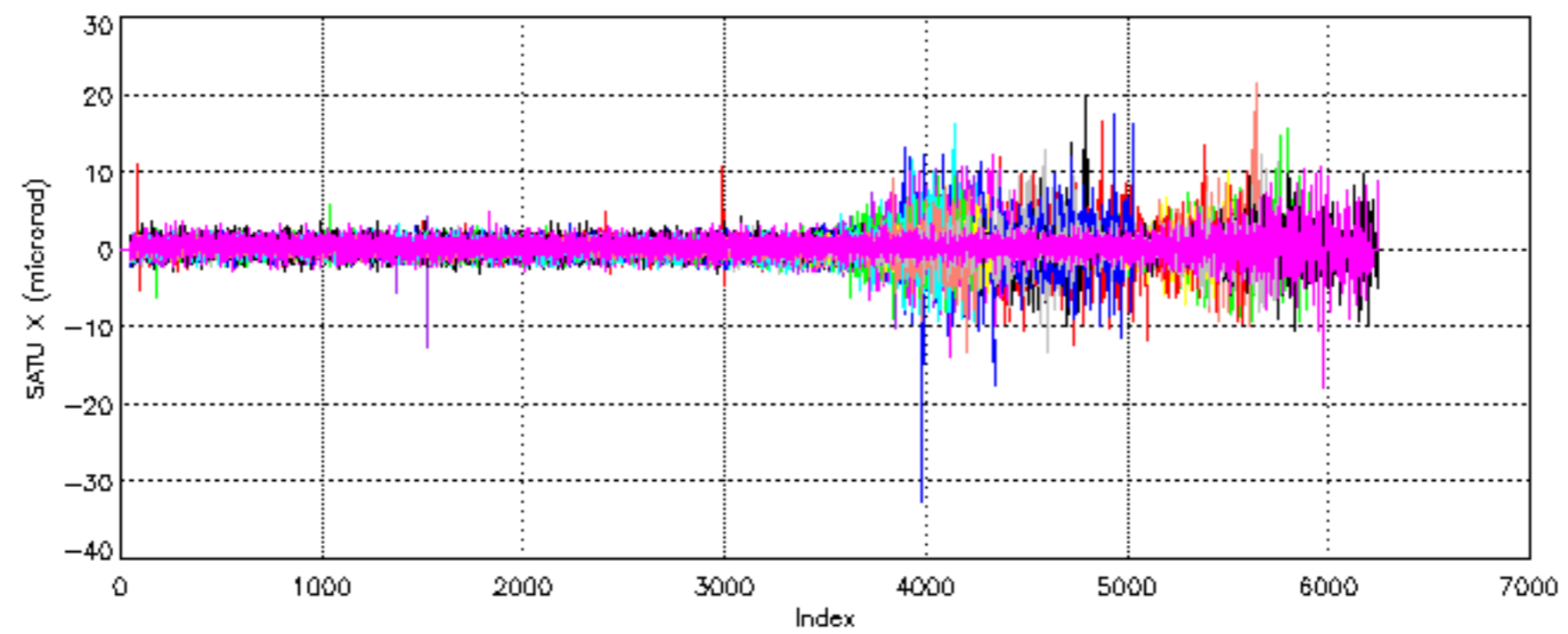


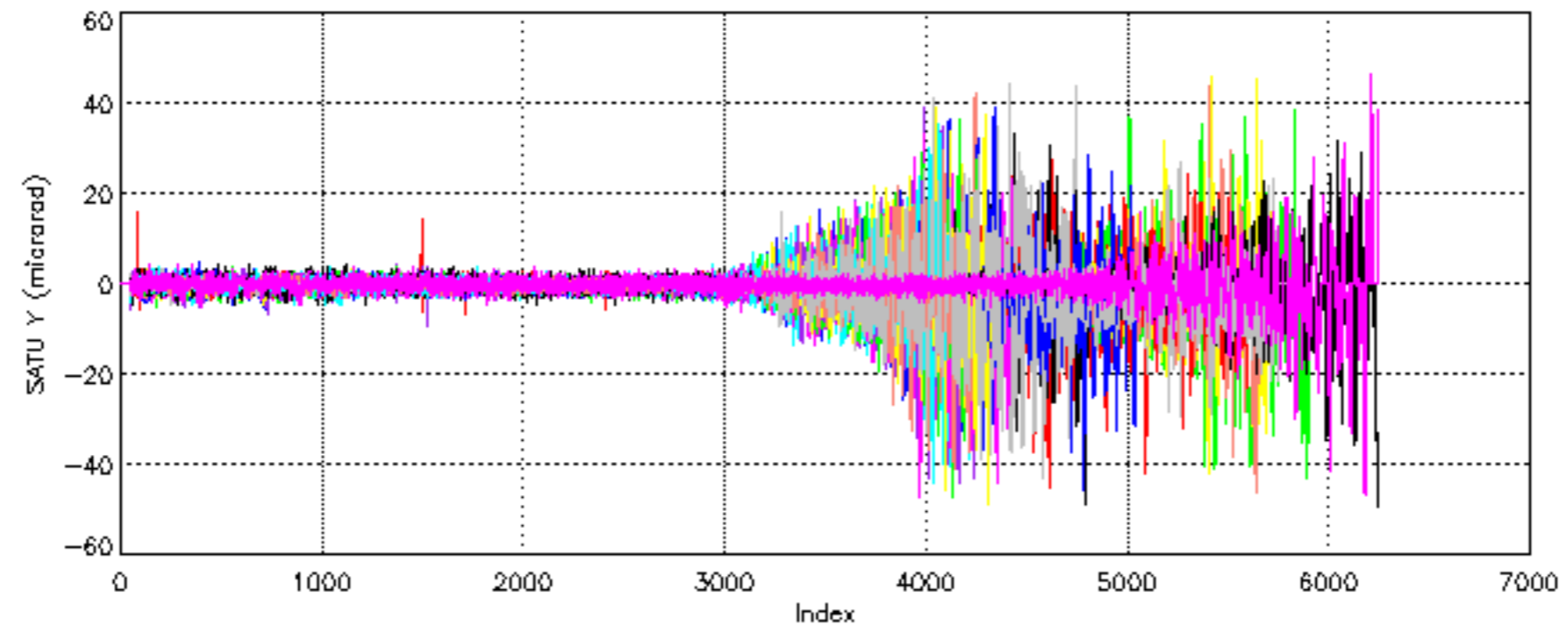
Tangent altitude at which the star is lost

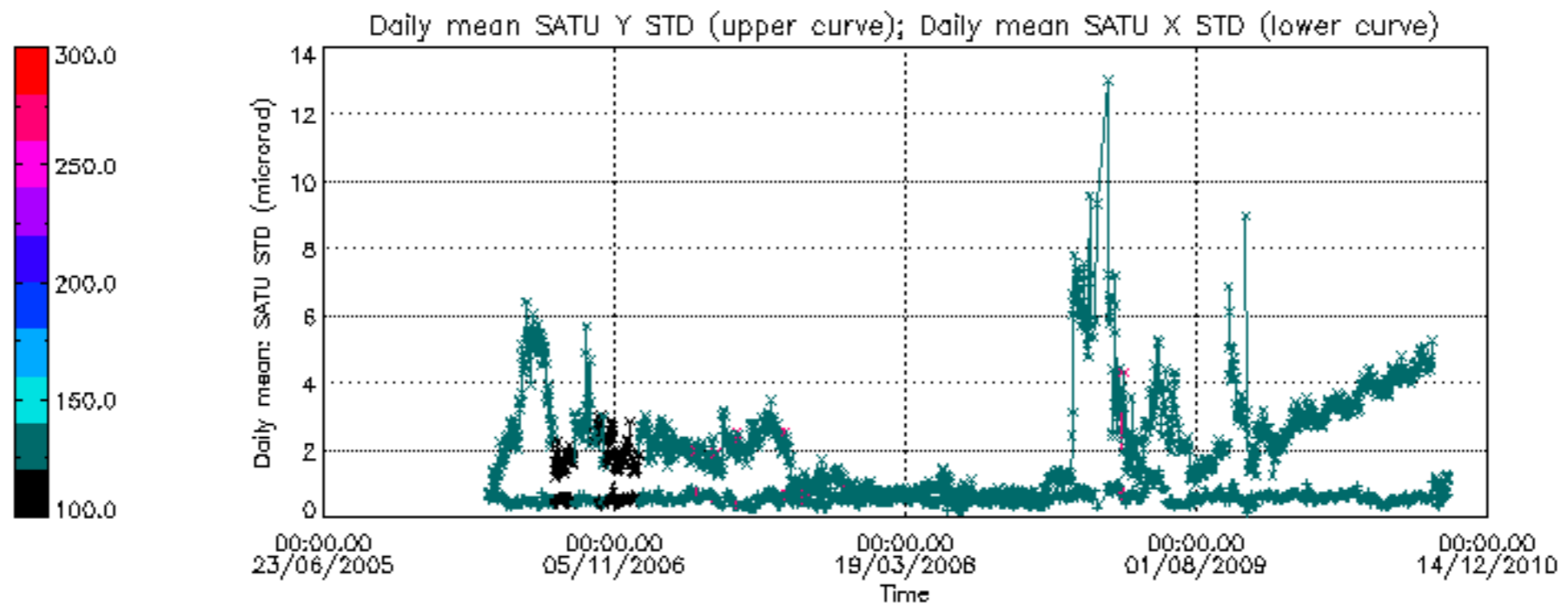


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1
 1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1
 1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1
 1;-1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2;-1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
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5; 2946.4; 02-OCT-2010 14:28:17; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44911
6; 3024.6; 02-OCT-2010 14:29:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44911
7; 4606.5; 02-OCT-2010 14:55:57; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;44911
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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8; 4633.3; 15-OCT-2010 19:49:32; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45100
9; 4829.0; 15-OCT-2010 19:52:48; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;45100
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6; 187.5; 20-OCT-2010 07:34:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45165
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3; 2728.1; 20-OCT-2010 11:37:53; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45167
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4; 2969.3; 20-OCT-2010 13:22:30; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45168
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4; 2966.1; 21-OCT-2010 12:50:49; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45182
5; 3077.8; 21-OCT-2010 12:52:41; Bright; 47.0; 175; 39Del Per ; 3.01; 19400;occ; 94; 0;45182
6; 4655.5; 21-OCT-2010 13:18:59; Bright; 44.5; 166; 17Eps Leo ; 2.98; 6000;occ; 89; 0;45182
7; 4859.8; 21-OCT-2010 13:22:23; Bright; 61.0; 22; 32Alp Leo ; 1.36; 15200;occ; 122; 0;45182
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9; 5919.5; 21-OCT-2010 13:40:03; Dark ; 59.5; 132; 15Rho Pup ; 2.80; 6900;occ; 119; 0;45182
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6; 4655.9; 21-OCT-2010 14:59:35; Bright; 46.5; 166; 17Eps Leo ; 2.98; 6000;occ; 93; 0;45183
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8; 5335.9; 21-OCT-2010 15:10:55; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;45183
9; 5921.1; 21-OCT-2010 15:20:40; Dark ; 59.0; 132; 15Rho Pup ; 2.80; 6900;occ; 118; 0;45183

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